# KENDRIYA VIDYALAYA SANGATHAN, BHUBANESWAR REGION PRE- BOARD EXAMINATION (2025-26) CLASS-XII

**SUBJECT: ENGLISH CORE (301)** 

Maximum Marks: 80 Maximum Time allowed: 3 Hrs.

#### **General Instruction:**

Read the following instructions very carefully and strictly follow them:

- (i) This paper has 13 questions. All questions are compulsory.
- (ii) This question paper contains three sections Section A: Reading Skills, Section B: Creative Writing and Section C: Literature
- (iii) Attempt all questions based on specific instructions for each part. Write the correct question number and part thereof in your answer sheet.
- (iv) Separate instructions are given with each question/ part, wherever necessary
- (v) Adhere to the prescribed word limit while answering the questions.

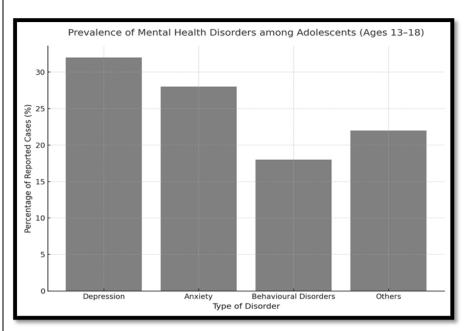
		SECTION A: READING SKILLS (22 marks)	
	1.	Read the following passage and answer the questions that follow.	
1		When we think of the game of cricket, we come to the conclusion that it is primarily a game that depends on outstanding physical activities, good hand-eye coordination, speed, skill and strength. It provides entertainment and generates strong feelings of excitement. A good match of cricket or of any other game neither adds to the existing stock of human knowledge nor reveals any secret of existence. It does not carry any deep meaning but most people, particularly the lover of sports attach deep emotions and numerous meanings to it. Games are thought of as a metaphor for life. They are supposed to teach many lessons. In fact, more is said and written about a cricket match than about scientific findings or great philosophy.	
2		This is because games, like a morality play, in which settings and rules are made by us, can easily make people test their fair and foul conduct, principles of reward and punishment, and emotions of joy and disappointment. They can make us experience the thrill of war without exposing us to its dangers. A man watching a cricket match on T.V. and munching popcorn is like a surrogate warrior. In fact, games provide us with a safe outlet for our aggressiveness. If games become aggressive, they lose the very purpose of providing entertainment and purging us of our aggressiveness. They can calm our impatience without creating any conflict.	
3		Commentators, journalists, politicians and analysts can do a great favour to the competing teams by keeping the excitement within limits. The teams should play without being dominated by feelings of national honour and shame. Excellent performance of the players of both teams should be enjoyed and appreciated. Winning or losing in a game should not be taken seriously. A game is fun if it is played with true spirit of sportsmanship.	
		Based on your understanding of the passage, answer the questions given below :	12
(i)		Complete the sentence by choosing an appropriate option:  Most people conclude that cricket is primarily a game because  (a) it is played as a match  (b) it requires two teams  (c) it includes physical activity, skill and coordination  (d) it teaches deep philosophical lessons	1

(ii)	Comment on the writer's reference to the idea that cricket does not reveal any secret of existence.	2			
(iii)	List two responses which watching a game of cricket gives rise to.	1			
(iv)	Select the option that conveys the opposite of 'destroy' from words used in the passage.  (a) reveals (b) experience (c) generate (d) purging	1			
(v)	The writer would not agree with the given statements based on paragraph 2, <b>EXCEPT</b> (a) Rules of any game are made by people. (b) Watching a cricket match makes the viewer believe that he is fighting a battle (c) It is necessary for a game to be aggressive in order to build excitement. (d) A game can test people's sense of fair judgement.				
(vi)	With reference to the passage, what does the phrase 'surrogate warrior' suggest about a spectator? Choose the option that best describes this phrase :  (a) a spectator who is paid to watch.  (b) a spectator who is in pain while watching the match.  (c) a spectator who enjoys the match as an armchair soldier.  (d) a spectator who makes judgement about reward and punishment.				
(vii)	Why does the writer compare games to a morality play?	2			
(viii)	Complete the given sentence with an appropriate inference:  The writer says that games can calm our impatience without creating any conflict by	1			
(ix)	The writer advises the players that games should not become aggressive because	1			
(x)	Select the most suitable title for the above passage.  (a) Excellent Performance by Cricketers  (b) The Benefits of Playing Cricket  (c) Cricket – The King of Games  (d) The True Spirit of Playing Games	1			
2.	Read the passage given below :	10			
(1)	Adolescent Mental Health — A Growing Global Concern (Adapted from WHO "Adolescent Mental Health Data Portal" & UNICEF India Country Report 2023) In the past decade, mental health has emerged as a central concern in global adolescent well-being. The World Health Organization (WHO) estimates that nearly one in every seven adolescents experiences a diagnosable mental disorder. The three most prevalent conditions are depression (32%), anxiety (28%), and behavioural disorders (18%), while other forms of emotional distress, such as eating disorders and substance dependence, make up about 22%. These figures, represented in the accompanying graph, illustrate the complex landscape of adolescent mental health and underline how emotional well-being remains under-addressed in most educational systems.				

In India, the National Mental Health Survey (2023) conducted by the Ministry of Health and Family Welfare highlighted that 18% of students aged 13–18 reported persistent sadness or hopelessness during the past year. Alarmingly, only 22% of these students had ever reached out to a counsellor or a healthcare professional. This gap is particularly wide between urban and rural schools — with 70% of private schools offering at least one trained counsellor, while only 24% of government schools had such support systems. Rural adolescents remain especially vulnerable due to the dual challenge of limited access and social stigma surrounding mental illness.

Experts note that adolescent mental distress often goes unnoticed because symptoms manifest subtly — through irritability, declining grades, or social withdrawal — rather than overtly dramatic behaviour. Parents, teachers, and peers frequently misinterpret such signs as laziness or disobedience. Compounding this is the social stigma attached to mental health conversations; students often fear judgment, ostracisation, or being labelled as "weak."

In the digital age, adolescents face a new dimension of psychological stress — cyberbullying, online comparison, and screen fatigue have intensified anxiety levels and body-image issues. While social media has created spaces for expression, it has also magnified insecurities. Psychologists emphasise that digital well-being should now be viewed as a part of mental health education.



To address this growing crisis, WHO and UNICEF have urged governments to integrate mental-health literacy into the school curriculum, train teachers to identify early warning signs, and create peer-support networks. The introduction of toll-free helplines and mobile-based counselling platforms has shown promise in cities like Bengaluru and Delhi, where student-led awareness campaigns have increased help-seeking behaviour by nearly 40% within a year.

(6)	The findings reaffirm that mental health is not merely a personal concern but a social and educational imperative. Investing in mental well-being during adolescence means investing in a generation capable of empathy, resilience, and responsible citizenship.	
	On the basis of your understanding of the passage, answer the questions given below :	10
(i)	What are the three most common mental disorders among adolescents, as reported by global agencies?	1
(ii)	According to the graph, the highest percentage of reported mental health disorder among adolescents is for	1
(iii)	Which group of students in India has less access to counsellors?  A. Urban students  B. Rural students  C. Senior students  D. University students	1
(iv)	The data reveals that only 22 percent of adolescents who experienced sadness sought help. What does this statistic suggest about students' attitudes or circumstances regarding mental-health support? (Answer in about 40 words.)	2
(v)	Fill in the blank suitably: The ministry of health's programme mainly focuses on care rather than community and school prevention. (therapeutic/curative/emergency).	1
(vi)	Explain two reasons mentioned in the passage for why adolescent mental-health problems often go untreated. (Answer in about 40 words.)	2
(vii)	Choose the statement that is NOT addressed in the passage. A. Shortage of trained professionals B. Social stigma linked with mental illness C. Impact of physical exercise on mental health D. Lack of rural counselling services	1
(viii)	Suggest one school-based initiative that could help improve early detection of mental distress among students.	1
	SECTION – B Creative Writing Skills (18 Marks)	
3	Attempt any ONE from (a) and (b) given below:	4
A	The Debating Society of your school is organising an inter-school debate. The last date for submitting names for audition is Friday 17th November. There will be on the spot trials. Draft a notice in about 50 words informing students about the team selection time, date and venue. You are Sarita / Sarit, President, Debating Society, Flora International School.	
	OR	
В	You are Aayush Nair, President of the Book Lovers' Club of your school. Your club is hosting a "Readathon 2025"—a 12-hour reading marathon—to raise funds for literacy drives. Draft a notice in about 50 words inviting students to register and contribute. Include necessary details.	
4	Attempt any one from (a) and (b) given below:	4

• social a • living b • mental	yond budgets	
Solution • respons		
position a	OR  sees the following advertisement and wishes to apply for the vertised. Write a letter of application in 120 – 150 words along with	а
	sees the following advertisement and wishes to apply for the vertised. Write a letter of application in 120 – 150 words along with	а
detailed b	-data.  SKILL DEVELOPMENT INSTITUTE Part-time Trainers for Computers / Car mechanics	a
T		
Requires  T	-data.  SKILL DEVELOPMENT INSTITUTE Part-time Trainers for Computers / Car mechanics e applicant must be professionally qualified.	а

A	There is a shift from content based to skill based education. In addition to foundational subjects, interesting courses such as design, digital competency and entrepreneurship are being offered to students. This breaking away from conformity has brought out the latent potential in students as they are now selecting courses based on choice/interest, and talent. Write an article in 120 150 words expressing your views on the topic 'Changing Trends in Education'. You may use the given input.	
	CHANGING TRENDS IN EDUCATION THEN LIMITED SUBJECTS RIGID SUBJECT STREAMS ACADEMIC FOCUS ROTE LEARNING PEN AND PAPER  CHANGING TRENDS IN EDUCATION NOW LIMITED SUBJECTS INTEGRATED SYLLABUS INTEREST/APTITUDE FOCUS TECHNOLOGY BASED COMPETENCY BASE	
	OR	
В	REVIVE PLAYTIME      Shapes better personalities     Builds physical and mental health     Develops life skills     Keeps them in touch with nature  You are Jessica/John, a budding journalist for a local daily. You covered an event named 'The Vanishing Joy of childhood'. The event was attended by students and teachers of different schools. The group discussions were on how playing makes children fitter, unstructured playing vs. high-tech toys, and how spontaneous group play helps build life skills. Write a report in 120 -150 words	
	for the local daily on the event. You may use the above given input.  SECTION C Literature (40 Marks)	
7	Attempt any one of the two extracts (A) and (B) given below	1 x 6
(A)	Read the following extract and answer the questions that follow:	=6
	In front at the edge of the road where the traffic sped, A roadside stand too pathetically pled, I t would not be fair to say for a dole of bread, But for some of the money, the cash, whose flow supports The flower of cities from sinking and withering faint. The polished traffic passed with a mind ahead, Or if ever aside a moment, then out of sorts At having the landscape marred with the artless paint Of signs that with N turned wrong and S turned wrong	
(i)	What is the tone of the poet in the extract? Choose the correct option: (a) optimistic (b) resigned (c) sympathetic (d) indifferent	1

(ii)	With reference to the given extract, what harm has been caused by the 'artless paint'	1		
(iii)	The city is compared to  (a) a landscape  (b) signs of N and S  (c) a flower  (d) a dole of bread	1		
(iv)	Choose the correct option: The roadside stand is (a) at the edge of the road. (b) marred with artless paint. (c) like the flower of cities. (d) well maintained.	1		
(v)	What type of expectations do the stand owners have from the city dwellers who come there?	1		
(vi)	Complete the analogy with a word from the given extract. donate: contribute:: dying:	1		
	OR			
(B)	Read the following extract and answer the questions that follow :			
	Aunt Jennifer's tigers prance across a screen, Bright topaz denizens of a world of green, They do not fear the men beneath the tree; They pace in sleek chivalric certainty. Aunt Jennifer's fingers fluttering through her wool Find even the ivory needle hard to pull. The massive weight of uncle's wedding band Sits heavily upon Aunt Jennifer's hand.			
(i)	Denizens of the world of green refer to  (a) huntsmen (b) Aunt Jennifer	1		
	(c) uncle (d) tigers			
(ii)	Choose the option that displays the same poetic device as used in the second line of the extract.  (a) heart of stone (b) trees sprouting (c) silver spoon (d) white murder	1		
(iii)	The men setting beneath the tree are	1		
(iv)	What quality of uncle can be inferred through these lines?  (a) compassionate nature  (b) courageous  (c) confident  (d) dominating	1		
(v)	The tigers in the extract are symbolic of (a) confidence and courage (b) confidence and gentleness (c) cruelty and fear (d) aggression and courage	1		
(vi)	Aunt Jennifer's tigers prance across (1) the screen (2) the fields (3) the embroidered tunic (4) the cage  Which of the following is the most appropriate choice? (a) (1) and (2) (b) (2) and (4) (c) (1), (2) and (3) (d) (1) and (3)	1		

8	Read the following extract and answer the questions that follow. Attempt any ONE			
(A)	"Because we are born into this community, we are never given any honour or dignity or respect; we are stripped of all that. But if we study and make progress, we can throw away these indignities. So study with care, learn all you can. If you are always ahead in your lessons, people will come to you of their own accord and attach themselves to you. Work Hard and Learn"			
(i)	Who is the speaker? Who is he speaking to? (a) Appa; Bama (b) Bama; Amma (c) Bama; The Zamindar (d) Annan; Bama	1		
(ii)	Select the option that best describes the speaker in the above extract :  I. marginalized II. practical III. idealistic IV. curious V. aggressive  Select the most appropriate option :  (a) I and II  (b) III and IV  (c) II and IV  (d) IV and V			
(iii)	Complete the following statement with reference to the community : The treatment meted out to the community was	1		
(iv)	Which of the following summarises the author's opinion about study?  (a) Childhood should be spent in experiential learning.  (b) Studying is better than playing  (c) Studying is essential for the nation's development  (d) Studying leads to social reforms and progress	1		
	OR			
(B)	Mr. Lamb: Well that needn't stop you, you needn't mind.  Derry: It'd stop them. They'd mind me. When they saw me here. They look at my face and run.  Mr. Lamb: They might. They might not. You'd have to take the risk. So would they.  Derry: No, you would, you might have me and lose all your other friends, because nobody wants to stay near me if they can help it.  Mr. Lamb: I've not moved.  Derry: No  Mr. Lamb: When I go down the street, the kids shout 'Lamey Lamb'. But they still come into the Garden, into my house; it's a game. They're not			
(1)	afraid of me. Why should they be ? Because I'm not afraid of them, that's why not.'			
(i) (ii)	The kids tease Mr. Lamb but still come into his garden. Why?	1		
(11)	Choose the best option that describes Mr. Lamb.  (a) headstrong (b) pessimist (c) negligent (d) positive	1		

(iii)	Choose the correct option with reference to the extract : What makes Derry tell Mr. Lamb that if he comes, others would stop coming?	1
	(a) Mr. Lamb would not let others come.	
	(b) They would be repulsed by Derry.	
	(c) Mr. Lamb will have to choose between him and others.	
	(d) Derry would flare up	
(iv)	What does Mr. Lamb mean by 'They might, they might not'?	1
9	Attempt any ONE of two extracts given :	1 x 6 =6
(A)	"I sometimes find a rupee, even a ten rupee note", Saheb says, his eyes lighting up when you can find a silver coin in a heap of garbage, you don't stop scrounging, for there is hope of finding more. It seems that for children, garbage has a meaning different from what it means to their parents. For the children it is wrapped in wonder, for the elders it is a means of survival. One winter morning I see Saheb standing by the fenced gate of the neighbourhood club, watching two young men dressed in white, playing tennis. "I like the game", he hums, content to watch it standing behind the fence. "I go inside when no one is around" he admits. "The gate keeper lets me use the swing."	
(i)	What does the metaphor of the "fenced gate" in the passage most likely symbolize in Saheb's life?  A) A barrier that protects him from danger B) A division between his dreams and the reality he lives in	1
	C) A place where he likes to relax and play D) A boundary set by his parents to keep him away from strangers	
(ii)	Which emotion of Saheb is revealed in the phrase 'his eyes lighting up'?	1
` ,	(a) anxiety (b) envy	
	(c) happiness (d) greed	
(iii)	For the elder's garbage is and for children it is	1
(iv)	On the basis of the extract, choose the correct option with reference to I and II given below:  I. Saheb watches the game from outside.  II. Saheb had lost the previous match.	1
	<ul><li>(a) I is true but II is not</li><li>(b) II is true but I is not</li><li>(c) Both I and II are true</li><li>(d) Both I and II are untrue</li></ul>	
(v)	(v) 'Scrounging' in the passage most nearly means. (a) digging (b) searching (c) flinging (d) burying	1
(vi)	(vi) 'There is hope for finding more'. Explain with reference to the above extract.	1
	OR	

(B)	"Or an actress. Now there's real money in that. Yes, and I could may be have the boutique on the side. Actresses don't work full time, do they? Anyway, that or a fashion designer. You know —something a bit sophisticated". And she turned in through the open street door leaving Jansie standing in the rain. "If I ever come into money, I'll buy a boutique". "Huh, if you ever come into money if you ever come into money, you'll buy us a blessed decent house to live in, thank you very much." Sophie's father was scooping shepherd's pie into his mouth as hard as he could go, his plump face still grimy and sweat — marked from the day. "She thinks money grows on trees, don't she Dad? Said little Derek, hanging on the back of his father's chair.  Their mother sighed.				
(i)	Sophie wants to become an actress to  (a) become famous (b) to earn money (c) to support her father (d) to compete with Jansie	1			
(ii)	Sophie's father wanted Sophie to spend her money on  (a) her marriage  (b) her career  (c) to open a boutique  (d) buying a house	1			
(iii)	Sophie is daydreaming about	1			
(iv)	The phrase 'She thinks money grows on trees' suggests that Sophie	1			
(v)	Sophie's mother's sigh is one of (a) regret (b) delight (c) relief (d) helplessness				
(vi)	Read the assertion and the reason below, with reference to the given extract.  Assertion (A): Sophie dreams of becoming rich and leading a glamorous life. Reason (R): She wants to open a boutique or become an actress or fashion designer.  Choose the correct option regarding their relationship:  (a) Both A and R are true, and R is the correct explanation of A.  (b) Both A and R are true, but R is not the correct explanation of A.  (c) A is true, but R is false.  (d) A is false, but R is true.	1			
10	Answer <u>any FIVE</u> out of six questions given below in about 40-50 words:	5 × 2 = 10			
a)	Why was the peddler hesitant to accompany the ironmaster to the manor house? (The Rattrap)	_ 10			
b)	What are the feelings of the poet about her aged mother with reference to the poem 'My Mother at Sixty-Six'?				
c)	Elaborate the 'conflict of duties' faced by Gandhiji.				
d)	How did Umberto Eco display his innovative style in the presentation of his dissertation? (The Interview)				
e)	What handicap did Doughlas suffer from? How did he overcome that? (Deep Water)				
f)	What according to Pablo Neruda in the poem 'Keeping Quiet' is the lesson that we should learn from mother earth?				
11	Answer any TWO in about 40-50 words :	2 × 2 = 4			

a)	What did the astrologers predict about the child when he was born? (The Tiger King)	
b)	Give the reason for Geoff Green's decision to involve young students in his programme. (Journey to the end of the Earth)	
c)	What was the dilemma faced by Sadao on seeing the prisoner of war? (The Enemy)	
12	Answer <u>any ONE</u> in about 120-150 words :	5
a)	"Sophie is an escapist and a dreamer, while Franz often misses school. Analyze how their attitudes towards life affect the outcomes for each character."	
	OR	
b)	Both Neruda and Keats encourage humankind to pause — Neruda through silence and self-awareness, and Keats through the appreciation of beauty.  Discuss how these poems advocate introspection as a means to achieve inner harmony, suggesting that the remedy for chaos and despair lies not in action, but in conscious stillness and a renewed perception of beauty.	
13	Answer <u>any ONE</u> in about 120-150 words:	5
a)	Both Derry and Dr. Sadao faced rejection — one for his appearance, the other for his decision to help an enemy. Yet, both characters challenge societal prejudice through human empathy.  Evaluate how these stories illustrate that understanding another person's pain can dissolve barriers more powerful than reason or law.  OR	
b)	The modern world is full of insecurity, fear, war, worry and stress. Do you think that the third level was a medium of escape for Charley in the Third Level? What are the ways in which we attempt to overcome such insecurities?	

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# KENDRIYA VIDYALAYA SANGATHAN, BHUBANESWAR REGION PRE-BOARD EXAMINATION (2025-26)

#### **CLASS-XII**

**SUBJECT: HINDI CORE (302)** 

**Maximum Marks: 80 Time Allowed: 3 Hours** 

#### सामान्य और आवश्यक निर्देश :-

- 1. इस प्रश्न पत्र में तीन खंड हैं- खंड 'क', खंड 'ख' और खंड 'ग'।
- 2. खंड 'क' में अपठित बोध पर आधारित प्रश्न पुछे गए हैं। सभी प्रश्नों के उत्तर देना अनिवार्य है।
- 3. खंड 'ख' में पाठ्यपुस्तक 'अभिव्यक्ति और माध्यम' से प्रश्न पुछे गए हैं। प्रश्नों के आंतरिक विकल्प दिये गए हैं।
- 4. खंड 'ग' में पाठ्यपुस्तक 'आरोह' और 'वितान' से प्रश्न पूछे गए हैं। प्रश्नों के आंतरिक विकल्प दिये गए हैं।
- 5. तीनों खंडों के उत्तर देना अनिवार्य है।
- 6. यथासंभव तीनों खंडों के प्रश्नों के उत्तर क्रमश: लिखिए।

#### खंड-क

#### प्रश्न 1. निम्नांकित गद्यांश पर आधारित दिये गए प्रश्नों के उत्तर दीजिये :

लोकतन्त्र के मूलभूत तत्व को समझा नहीं गया है और इसलिए लोग समझते हैं कि सब कुछ सरकार कर देगी. हमारी कोई ज़िम्मेदारी नहीं है। लोगों में अपनी पहल से ज़िम्मेदारी उठाने और निभाने का संस्कार विकसित नहीं हो पाया है। फलस्वरूप देश की विशाल मानव शक्ति अभी खरिट लेती पड़ी है और देश की पूंजी उपयोगी बनने के बदले आज बोझ रूप बन बैठी है। लेकिन उसे नींद से झकझोर कर जागृत करना है। किसी भी देश को महान बनाते हैं उसमें रहने वाले लोग। लेकिन अभी हमारे देश के नागरिक अपनी जिम्मेदारी से बचते रहे हैं। चाहे सडक पर चलने की बात हो अथवा साफ-सफाई की बात हो, जहाँ- तहाँ हम लोगों को गंदगी फैलाते और बेतरतीब ढंग से वाहन चलाते देख सकते हैं। फिर चाहते हैं कि सरकार सब कुछ ठीक कर दे।

सरकार ने बहुत सारे कार्य किए हैं, इसे अस्वीकार नहीं किया जा सकता है। वैज्ञानिक प्रयोगशालाएँ खोली हैं. विशाल बाँध बनवाएँ हैं. फौलाद के कारखाने खोले हैं आदि बहत सारे काम सरकार के द्वारा हुए हैं। पर अभी करोड़ों लोगों को कार्य में प्रेरित नहीं किया जा सका है। वास्तव में होना तो यह चाहिए कि लोग अपनी सूझ-बूझ के साथ अपनी आंतरिक शक्ति के बल पर खड़े हों और अपने पास जो भी साधन- सामग्री हो उसे लेकर कुछ करना शुरू कर दें और फिर सरकार उसमें आवश्यक मदद करे। उदाहरण के लिए गाँव वाले बडी-बडी पंचवर्षीय योजनाएँ नहीं समझ सकेंगे. पर वे लोग यह बात जरूर समझ सकेंगे कि अपने गाँव में कहाँ कुआँ चाहिए, कहाँ सिंचाई की जरूरत है, कहाँ पल की आवश्यकता। बाहर के लोग इन सब बातों से अनिभन्न होते हैं।

### (क) लोगों में कर्तव्यपालन की भावना क्यों नहीं है?

अ. लोग इसे सरकार की ज़िम्मेदारी मानते हैं। ब. लोग इसे अपनी ज़िम्मेदारी मानते हैं।

स. लोग कर्तव्य के बारे में नहीं जानते।

1

द. सभी विकल्प सही हैं।

OP XII HINDI Set-1 Page 1 of 6 (ख) निम्न कथनों पर विचार करें-1 i. लोकतन्त्र का मूल तत्व लोगों की समस्त कार्यों में सीधी भागीदारी है। ii. लोकतन्त्र में केवल सरकार लोगों के प्रति उत्तरदायी है। iii. लोकतन्त्र में लोगों की अप्रत्यक्ष भमिका है। iv. लोगों में लोकतन्त्र की समझ तथा संकल्पना स्पष्ट नहीं है। अ. केवल कथन (i) सही है। ब. केवल कथन (ii) सही है। स. कथन (i),(ii) तथा (iii) तीनों सही हैं। द. कथन (i) और (iv) दोनों सही हैं। (ग) निम्नलिखित कथन तथा कारण को ध्यानपूर्वक पढ़कर सर्वाधिक उपयुक्त विकल्प का चयन कीजिये।1 कथन (A) : देश की मानव-शक्ति सुष्प्तावस्था में है । कारण (R) : देश की जनता में बदलाव हेतु कार्य करने की भावना का अभाव दिखाई पड़ता है। अ. कथन (A) तथा कारण (R) दोनों सही हैं तथा कारण कथन की सही व्याख्या करता है। ब. कथन (A) गलत है लेकिन कारण (R) सही है। स. कथन (A) तथा कारण (R) सही हैं। द. कथन (A) सही है लेकिन कारण (R) उसकी गलत व्याख्या करता है। (घ) सरकारी व्यवस्था में किस कमी की ओर लेखक ने संकेत किया है? 1 (ङ) गदयांश के अनुसार लोगों की कौन सी शक्ति को बढ़ाना है? क्यों? 2 (च) समाज कैसे विकसित हो सकता है? 2 (छ) बाहर के लोग किन बातों से अनभिज्ञ होते हैं? 2 प्रश्न 2. निम्नांकित पद्यांश पर आधारित प्रश्नों के उत्तर टीजिये: सुख रहा है समय इसके हिस्से की रेत उड रही है आसमान में सुख रहा है आँगन में रखा पानी का गिलास पंखुड़ी की साँस सूख रही है जो सुंदर चोंच मीठे गीत सुनाती थी हर पौधा सुख रहा है हर नदी इतिहास हो रही है हर तालाब का सिमट रहा है कोना यही मनुष्य का कंठ सूख रहा है वह जेब से निकालता है पैसे और खरीद रहा है बोतल बंद पानी बाकी जीव क्या करेंगे अब न उनके पास जेब है और न बोतल बंद पानी। (क) हर नदी के इतिहास होने का क्या तात्पर्य है? 1

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स. नदियों में पानी कम बहता है। द. नदियों का बहाव अधिक है।

ब. नदियों का अस्तित्व समाप्त हो रहा है।

अ. नदी इतिहास में थी।

(ख) "सूख रहा है समय" कथन का आशय क्या है?	1
अ. अभी समय बहुत है । 💎 ब. समय सूखने लगा है ।	
स. समय समाप्त हो रहा है   द. जीवन-मूल्य समाप्ति के कगार पर है	
(ग)निम्नलिखित कथन और कारण को ध्यानपूर्वक पढ़कर सर्वाधिक उपयुक्त विकल्प का चयन कीजि	ये।1
कथन (A) पंखुड़ी की साँस सूख रही है जो सुंदर चोंच मीठे गीत सुनाती थी।	
कारण (R) प्राकृतिक स्रोतों का तेजी से ह्रास हो रहा है।	
अ. कथन (A) तथा कारण (R) दोनों सही हैं तथा कारण कथन की सही व्याख्या करता है	1
ब. कथन (A) गलत है लेकिन कारण (R) सही है।	
स. कथन (A) तथा कारण (R) सही हैं।	
द. कथन (A) सही है लेकिन कारण (R) उसकी गलत व्याख्या करता है।	
(घ) कवि के दर्द का क्या कारण है?	1
(ङ) 'बाकी जीव क्या करेंगे अब' कथन में निहित व्यंग्य क्या है?	2
(च) काव्यांश का भाव अपने शब्दों में लिखें।	2
खंड-ख	
प्रश्न 3. निम्नलिखित दिये गए विषयों में से किसी एक विषय पर लगभग 120 शब्दों में रचनात	मक
लेख लिखिए:	6
अ. गुम होता बचपन	
ब. चुनावी वादे और सच्चाई	
स. अभिव्यक्ति की स्वतन्त्रता	
प्रश्न 4. निम्नांकित प्रश्नों में से किन्हीं <u>चार</u> प्रश्नों के उत्तर लगभग 40 शब्दों में दीजिये: 2x4 =	<b>8</b>
(i) विशेष लेखन क्या है? उदाहरण सहित लिखिए।	
(ii) रेडियो नाटक तथा सामान्य नाटक में क्या अंतर है?	
(iii) नए और अप्रत्याशित विषयों पर लेखन हमारी रचनात्मकता को बढ़ाती है, कैसे?	
(iv) फीचर लेखन की विशेषताओं को लिखिए।	
(v) संपादकीय लेखन से क्या समझते हैं?	
प्रश्न 5. निम्नांकित में से किन्हीं <u>दो</u> प्रश्नों के उत्तर लगभग 80 शब्दों में दीजिये: 4 x 2	_
(i) टेलीविज़न समाचार के चरण 'ड्राई एंकर' और 'फोन इन' के बारे में बताइए ।	= 8
	= 8
(ii) समाचार की उल्टा पिरामिड शैली से आप क्या समझते हैं?	= 8
(ii) समाचार की उल्टा पिरामिड शैली से आप क्या समझते हैं? (iii) पत्रकार किसे कहते हैं? पत्रकार के विभिन्न प्रकार को संक्षेप में समझाइए।	= 8

खंड-ग प्रश्न 6. निम्नलिखित पठित काव्यांश पर आधारित प्रश्नों के लिए सर्वाधिक उपयुक्त विकल्प चुनकर लिखिए :  $1 \times 5 = 5$ हँसते हैं छोटे पौधे लघुभार शस्य अपार, हिल - हिल खिल - खिल हाथ हिलाते. तुझे बुलाते विप्लव रव से छोटे ही हैं शोभा पाते। अट्टालिका नहीं है रे आतंक भवन सदा पंक पर ही होता जल- विप्लव- प्लावन क्षुद्र प्रफुल्ल जलज से सदा छलकता नीर रोग-शोक में भी हँसता है शैशव का सुकुमार शरीर रुद्ध कोष है. क्षुब्ध तोष अंगना अंग से लिपटे भी आतंक अंक पर कॉंप रहे हैं धनी, वज्र-गर्जन से बादल त्रस्त नयन मुख ढाँप रहे हैं। (क) 'विप्लव रव से छोटे ही हैं शोभा पाते'- यहाँ 'छोटे' शब्द प्रयुक्त हुआ है-1 अ. शोषित वर्ग के लिए ब. शोषक वर्ग के लिए स. मध्यम वर्ग के लिए द. उच्च वर्ग के लिए (ख) जल- विप्लव प्लावन किस पर होता है? 1 अ. जलज पर ब. नौका पर स. कीचड पर द. नभ पर (ग) कवि ने अट्टालिकाओं को क्या कहा है? 1 अ. राजमहल ब. सभा भवन स. व्यायामशाला द. आतंक भवन (घ) निम्नांकित कथन और कारण को ध्यानपूर्वक पढ़कर सर्वाधिक उपयुक्त विकल्प चुनकर लिखिए। 1 कथन (A) शोषित वर्ग बादल अर्थात क्रांति का आह्वान करता है। कारण (R) शोषक वर्ग अट्टालिकाओं में जनता के लिए षड्यंत्र रचते हैं। अ. कथन (A) सही है और कारण (R) गलत है। ब. कथन (A) गलत है और कारण (R) सही है।

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स. कथन (A) सही है और कारण (R) कथन (A) की सही व्याख्या करता है।

द. कारण (R) गलत है।

1

- अ. बादल, और उसे व्याकुल मजदूर बुलाता है
- ब. क्रांतिकारी, और उसे व्याकुल कृषक बुलाता है
- स. बादल, उसे व्याकुल कृषक बुलाता है
- द. उपर्युक्त में से कोई नहीं

# प्रश्न 7. निम्नांकित प्रश्नों में से किन्हीं <u>दो</u> प्रश्नों के उत्तर लगभग 60 शब्दों में दीजिये : 3 x 2 = 6

- (क) बात और भाषा परस्पर जुड़े होते हैं, किन्तु कभी-कभी भाषा के चक्कर में सीधी बात भी टेढ़ी हो जाती है। कैसे?
- (ख) 'परदे पर वक्त की कीमत है'- कहकर किव ने पूरे साक्षात्कार के प्रति अपना नजरिया किस रूप में रखा है?
- (ग) 'उषा' कविता गाँव की सुबह का गतिशील शब्द-चित्र है- सोदाहरण स्पष्ट कीजिये।

### प्रश्न 8. निम्नांकित प्रश्नों में से किन्हीं <u>दो</u> प्रश्नों के उत्तर लगभग 40 शब्दों में दीजिये: 2 x 2 = 4

- (क) पतंगों के साथ-साथ वे भी उड़ रहे हैं- बच्चों का उड़ान से कैसा संबंध बनता है?
- (ख) शोकग्रस्त माहौल में हनुमान जी के अवतरण को करुण रस के बीच वीर रस का आगमन क्यों कहा गया है?
- (ग) 'आत्मपरिचय' में कवि के कथन 'शीतल वाणी में आग लिए फिरता हूँ'- का विरोधाभास स्पष्ट करें।

### प्रश्न 9. निम्नलिखित गद्यांश पर आधारित प्रश्नों के लिए सही विकल्प चुनिये: 1 x 5 = 5

बाज़ार में एक जादू है। वह जादू आँख की राह काम करता है। वह रूप का जादू है। पर जैसे चुंबक का जादू लोहे पर ही चलता है, वैसे ही इस जादू की भी मर्यादा है। जेब भरी हो और मन खाली हो, ऐसी हालत में बाज़ार का असर खूब होता है। जेब खाली पर मन भरा न हो तो भी जादू चल जाएगा। मन खाली है, तो बाज़ार की अनेकानेक चीजों का निमंत्रण उस तक पहुँच जाएगा। कहीं हुई उस वक्त जेब भरी, तब तो वह मन किसकी मानने वाला है। मालूम होता है यह भी लूँ, वह भी लूँ। सभी सामान जरूरी और आराम को बढ़ाने वाला मालूम होता है। पर यह सब जादू का असर है। जादू की सवारी उतरी कि पता चलता है कि फ़ैन्सी चीजों की बहुतायत आराम में मदद नहीं देती, बल्कि खलल ही डालती हैं। थोड़ी देर को स्वाभिमान को जरूर सेंक मिल जाती है पर इससे अभिमान की गिल्टी को और खुराक ही मिलती है।

- (क) लेखक के अनुसार बाज़ार के जादू की क्या मर्यादा है?
  - अ. वह केवल उन लोगों पर असर करता है, जिनके मन खाली होते हैं।
  - ब. वह केवल उन लोगों पर असर करता है, जो वस्तु खरीदने आते हैं।
  - स. वह केवल अमीर लोगों पर असर करता है।
  - द. वह केवल गरीब लोगों पर असर करता है।
- (ख) बाज़ारवाद को कौन बढ़ावा देता है?
  - अ. मन का खालीपन

ब. मन का भरा होना

स. जेब का खालीपन

द. मन का बंद होना

(ग) बाज़ार का जादू उतरने पर क्या पता चलता है?

अ.आकर्षक चीजें उपयोगी होती हैं।

- ब. आकर्षित करनेवाली चीजें हमारे जीवन में महत्व नहीं रखती हैं।
- स. आकर्षित करनेवाली चीजें स्वाभिमान को बचाती हैं।
- द. आकर्षण ही व्यक्ति को जीना सिखाता है।
- (घ) निम्नांकित कथन-कारण को ध्यानपूर्वक पढ़कर दिये गए विकल्पों में से सही विकल्प चूनिये : कथन (A) बाज़ार का जादू उतरने पर वस्तु खरीदने की व्यर्थता का पता चलता है। कारण (R) बाज़ार का जादू आँखों के माध्यम से हमें आकर्षित करता है।
  - अ. कथन (A) तथा कारण (R) दोनों सही हैं तथा कारण कथन की सही व्याख्या करता है।
  - ब. कथन (A) गलत है तथा कारण (R) सही है।
  - स. कथन (A) तथा कारण (R) दोनों गलत हैं।
  - द. कारण (R) कथन (A) की गलत व्याख्या करता है।
- **(ङ)** गदयांश के आधार पर निम्नांकित कथनों पर विचार करें
  - i. सभी आकर्षित करने वाली वस्तुएँ उपयोगी होती हैं।
  - ii. बाज़ार का जादू उसके रूप का जादू है।
  - iii. बाज़ार का जादू टूटने पर व्यक्ति को अफसोस होता है।
  - iv. वस्तुओं को खरीदने से तात्कालिक रूप से व्यक्ति को आत्मसंतोष प्राप्त होता है। उपर्युक्त कथनों में से कौन-सा/ कौन-से कथन सत्य है/हैं?
  - अ. (i) और (ii)

ब. (iii) और (iv)

स. सभी कथन सत्य हैं। द. (i) को छोड़कर सभी कथन सत्य हैं।

# प्रश्न 10. निम्नांकित प्रश्नों में से किन्हीं <u>दो</u> प्रश्नों के उत्तर लगभग 60 शब्दों में दीजिये: 2 x 3 = 6

- (क) भक्तिन के तीन चारित्रिक दुर्गुण बताइए।
- (ख) लुइन पहलवान की बाल्यावस्था का परिचय दीजिये।
- (ग) जाति-प्रथा को श्रम विभाजन का ही एक रूप न मानने के पीछे अंबेडकर जी के क्या तर्क

## प्रश्न 11. निम्नांकित प्रश्नों में से किन्हीं <u>दो</u> प्रश्नों के उत्तर लगभग 40 शब्दों में दीजिये: 2 x 2 = 4

- (क) हजारी प्रसाद द्विवेदी जी ने शिरीष की तुलना किस महान व्यक्तित्व से की है और क्यों?
- (ख) बाबा साहब अंबेडकर ने आदर्श समाज के लिए किन तीन तत्वों को आवश्यक माना है? स्पष्ट करें।
- (घ) इंदर सेना पर पानी फेंके जाने को लेखक अंधविश्वास कहता है परंत् जीजी किन तर्कों से उसे खंडित करती है? स्पष्ट कीजिये।

### प्रश्न 12. निम्नांकित प्रश्नों में से किन्हीं दो प्रश्नों के उत्तर लगभग 60 शब्दों में दीजिये: 2x5 = 10

- (क) 'सिल्वर वैडिंग' पाठ के आधार पर बताइए कि जीवन मूल्य समय के साथ बदल रहे हैं।
- (ख) 'जुझ' कहानी के कहानीकार के शिक्षित होने के संघर्ष में दत्ता जी राव देसाई के योगदान को स्पष्ट कीजिये।
- (ग) लेखक ने मुअनजोदडो की नगर योजना की तूलना आज के नगरों से किस प्रकार की है?

OP XII HINDI Set-1 Page 6 of 6

# KENDRIYA VIDYALAYA SANGTHAN, BHUBANESWAR REGION PRE – BOARD EXAMINATION (2025-26)

CLASS: XII

**Subject: MATHEMATICS** 

Maximum Marks = 80

**Maximum Time Allowed = 3 Hours** 

General Instructions: Read the following instructions very carefully and strictly follow them:

- (i) This Question paper contains 38 questions. All questions are compulsory.
- (ii) This Question paper is divided into five Sections A, B, C, D and E.
- (iii) In Section A, Questions no. 1 to 18 are multiple choice questions (MCQs) and Questions no. 19 and 20 are Assertion-Reason based questions of 1 mark each.
- (iv) In Section B, Questions no. 21 to 25 are Very Short Answer (VSA)-type questions, carrying 2 marks each.
- (v) In Section C, Questions no. 26 to 31 are Short Answer (SA)-type questions, carrying 3 marks each.
- (vi) In Section D, Questions no. 32 to 35 are Long Answer (LA)-type questions, carrying 5 marks each.
- (vii) In Section E, Questions no. 36 to 38 are Case study-based questions, carrying 4 marks each.
- (viii) There is no overall choice. However, an internal choice has been provided in 2 questions in Section B, 3 questions in Section C, 2 questions in Section D and one subpart each in 2 questions of Section E.

S.NO.	D. SECTION A						
1	The domain of the function $y = \sin^{-1}(-x^2)$ is						
	(A) [0, 1]	(B) (0, 1)	(C) [-1, 1]	(D) [-1, 0]			
2	If $A = \begin{bmatrix} 1 & 1 \\ 1 & 1 \end{bmatrix}$ . Then $A^{100}$ is .						
	(A) 100A	(B) 99A	(C) 2 <sup>99</sup> A	(D) 2 <sup>100</sup> A			
3	Total number of possible matrices of order 3 × 3 with diagonal entries are ± 2						
	and non - diagonal entries are -1, 0 and 1						
	(A) 2 <sup>9</sup>	(B) 3 <sup>9</sup>	(C) $2^33^6$	(D) 2 <sup>6</sup> 3 <sup>3</sup>			
4	If $\begin{vmatrix} 6i & -3i & 1 \\ 4 & 3i & -1 \\ 20 & 3 & i \end{vmatrix} = x+iy$ , where $i = \sqrt{-1}$ , then $(x,y) =$						
	(A) (2, 3) (B) (0, 3) (C) (3, 1) (D) (0, 0)						
5	If $A(\alpha) = \begin{bmatrix} cos\alpha & sin\alpha \\ -sin\alpha & cos\alpha \end{bmatrix}$ , then the matrix $A^2(\alpha)$ is equal to						
	Α. Α(2α)	B. A(α) C.	A(3α) D. A(4α	2)			

6	If $A = \begin{bmatrix} 1 & 2 \\ 4 & 2 \end{bmatrix}$ . Then  2A  is.	1
	(A) 2   A   (B) 4   A   (C) 8   A   (D) 8   A	
7	If $x = t^2$ and $y = t^3$ then $\frac{d^2y}{dx^2}$	1
8	(A) $\frac{3}{2}$ (B) $\frac{3t}{2}$ (C) $\frac{3}{4t}$ (D) $\frac{3}{2t}$ The maximum value of f(x) = sinx.cosx is	1
	A. $\frac{1}{2}$ B. $\frac{-1}{2}$ C. 0 D. 5	
9	The value of integration $\int e^x \sec x (1+\tan x) dx$ is	1
	(A) $e^x \cos x + c$ (B) $e^x \sec x + c$ (C) $e^x \sin x + c$ (D) $e^x \tan x + c$	
10	If $\int_0^a f(2a-x) dx = m$ and $\int_0^a f(x) dx = n$ , then $\int_0^{2a} f(x) dx$ is equal to	1
	(A) 2m +n (B) m + 2n (C) m - n (D) m + n	
11	The area bounded by $y = \log x$ , x-axis and ordinates $x = 1$ , and $x = 2$ is	1
	(A) log2 (B) log(2/e) (C) log(4/e) (D) log4	
12.	The integrating factor of the differential equation : $(xlogx)\frac{dy}{dx} + y = 2logx$ is:	
	(A) $e^x$ (B) $log x$ (C) $log(log x)$ (D) $x$	
13	The order and degree of the differential equation $\left\{1 + 10\left(\frac{dy}{dx}\right)^2\right\}^{\frac{5}{2}} = \frac{d^3y}{dx^3}$ are	1
	p and q respectively, then relation between p and q are	
	(A) $p = 3q$ (B) $p = 3q$ (C) $p = 2q$ (D) $p = 3q$	
14	If $ \vec{a}  = 2$ , $ \vec{b}  = 7$ and $\vec{a} \times \vec{b} = 3\hat{i} + 2\hat{j} + 6\hat{k}$ , then the angle between $\vec{a}$ and $\vec{b}$ .	1
	(A) $\frac{5\pi}{6}$ (B) $\frac{2\pi}{3}$ (C) $\frac{\pi}{3}$ (D) $\frac{\pi}{6}$	
15	If $\vec{a}$ , $\vec{b}$ and $\vec{c}$ are mutually perpendicular unit vectors, then the value of $ \overrightarrow{2a} $ +	1
	$ \vec{b} + \vec{c} ^2$	
	(A) -6 (B) 6 (C) $\pm 6$ (D) $\sqrt{6}$	
16	An objective function of a linear programming problem is	1
	(A) a constraint (B) a function to be optimized	
	(C) a relation between the variables (D) none of these	
17	Which of the points is not a corner point of this problem:	1
	Max $z = x + y$ subject to the constraints $2x + y \le 50$ , $x + 2y \le 40$ , $x \ge 0$ , $y \ge 0$ .	
	(A)(3, 4) (B)(0, 0) C. (0, 20) (D) (25, 0)	
18	If A and B are any two events such that $P(A) + P(B) - P(A \cap B) = P(A)$ then	1
	(A) $P(\frac{B}{A}) = 1$ (B) $P(\frac{B}{A}) = 0$ (C) $P(\frac{A}{B}) = 1$ (D) $P(\frac{A}{B}) = 0$	
	ASSERTION & REASON	
19	Assertion (A): The range of the function $f(x) = 2 \sin^{-1} x + \frac{3\pi}{2}$ ,	1
	$\chi = 2 \sin (x)$ , the range of the function $\chi = 2 \sin (x) + 2 \sin (x)$	

	where $\in [1,1]$ , is $\left[\frac{\pi}{2}, \frac{5\pi}{2}\right]$ .	
	Reason (R): The range of the principal value branch of $sin^{-1}(x)$ is $[0, \pi]$ .	
	(A) Both (A) and (R) are true and (R) is the correct explanation of (A).	
	(B) Both (A) and (R) are true but (R) is not the correct explanation of (A).	
	(C) (A) is true but (R) is false.	
	(D) (A) is false but (R) is true.	
20	(Assertion): The function $f(x) = x^2-6x+8$ is strictly increasing for x>3	1
	(Reason): A function has maximum value at point x=a, if f'(a)=0 and f " (a)<0	
	(A) Both (A) and (R) are true and (R) is the correct explanation of (A).	
	(B) Both (A) and (R) are true but (R) is not the correct explanation of (A).	
	(C) (A) is true but (R) is false.	
	(D) (A) is false but (R) is true.	
	SECTION B	
21	Express $\tan^{-1}(\frac{\cos x}{1-\sin x})$ , $\frac{\pi}{2} < x < \frac{3\pi}{2}$ in the simplest form.	2
	OR Find the value of $tan^{-1} [2cos(2sin^{-1}\frac{1}{2})] + tan^{-1}(1)$ .	
22	Find the derivative of sin <sup>2</sup> x with respect to e <sup>cosx</sup> .	2
23	If $x = e^{y + e^{y + e^y}}$ , then find the value of $\frac{dx}{dy}$ .	
	OR	
	If $f(x) = \begin{cases} ax + 3, & \text{if } x \le 1 \\ a^2x - 1, & \text{if } x > 1 \end{cases}$ , then the values of a for which f is continuous for	
	all x.	
24	If $\vec{a} + \vec{b} + \vec{c} = 0$ and $ \vec{a}  = 3$ , $ \vec{b}  = 5$ and $ \vec{c}  = 7$ , show that angle between $\vec{a}$	2
	and $\overrightarrow{b}$ is 60°.	
25	Find the magnitude of each of the two vectors $\vec{a}$ and $\vec{b}$ , having the same	2
	magnitude such that the angle between them is $60^{\circ}$ and their scalar product is $\frac{9}{2}$	
	SECTION C	
26	Find two positive numbers whose sum is 24 and product is maximum.	3
	OR	

	The radius of a cylinder is increasing at the rate of 3m/s and its altitude is	
	decreasing at the rate of 4m/s . The rate of change of volume when radius is	
	4m and altitude is 6m.	
27	Find the intervals in which the function f given by $f(x) = x^3 - 12x^2 + 36x + 17$ is	3
	increasing or decreasing.	
28	Evaluate $\int_0^{\pi/2} \log \sin x  dx$	3
	OR	
	Evaluate $\int \frac{\sec x \tan x  dx}{\sqrt{3 - 2secx - sec^2 x}}$	
29	Find the points on line $\frac{x+2}{3} = \frac{y+1}{2} = \frac{z-3}{2}$ at a distance of 5 units from the point	3
	P (1, 3, 3)	
30	Solve the following LPP graphically: Maximize: Z = x +2 y	3
	Subject to the constraints $x + 2y \ge 100$ , $2x - y \le 0$ , $2x + y \le 200$ and	
	$x \ge 0, y \ge 0.$	
	OR	
	Solve the following Linear Programming Problem graphically:	
	Minimise: $Z = x + 2y$	
	Subject to constraint: $2x + y \ge 3, x + 2y \ge 6, x, y \ge 0$	
	Show graphically that the minimum of Z occurs at more than two points.	
31	A black and a red die are rolled together. Find the conditional probability of	3
	obtaining the sum 8, given that the red die resulted in a number less than 4.	
	SECTION D	
32	If $A = \begin{bmatrix} 1 & 1 & 1 \\ 1 & 0 & 2 \\ 3 & 1 & 1 \end{bmatrix}$ , find $A^{-1}$ . Hence, solve the system of equations $x + y + z = 6$ , $x + 2z = 7$ , $3x + y + z = 12$	5
33	Differentiate w.r.t. $x : (\sin x + \cos x)^{(\sin x - \cos x)} + (\log x)^{\tan x}$	5
34	Using integration, find the area of the region bounded by the triangle whose	5
	vertices are (-1, 0), (1, 3) and (3, 2).	
	OR	
	Find the area of the region bounded by the curve $4x^2 + y^2 = 36$ using	
	integration.	
35	Show that the lines $\vec{r} = (\hat{i} + \hat{j} - \hat{k}) + \lambda(\hat{3}\hat{i} - \hat{j})$ and $\vec{r} = (4\hat{i} - \hat{k}) + \mu(\hat{2}\hat{i} + 3\hat{k})$	5
	intersect. Also find their point of intersection and angle between them.	
	OR	
	Find the coordinates of the foot of perpendicular and the length of the	
	perpendicular drawn from the point P(5, 4, 2) to the line $\frac{x+1}{2} = \frac{y-3}{3} = \frac{z-1}{-1}$ .	
	Also, find the image of P in this line.	
		L

	SECTION E							
36	An organization conducted bike race under 2 different categories - boys and							
	girls. Totally there were 250 participants. Among all of them finally three from							
	Category 1 and two from Category 2 were selected for the final race. Ravi							
	forms two set B and G with these participants for his college project. Let where							
	B represents the set of boys selected and G the set of girls who were selected							
	for the final race.							
	Ravi decides to explore these sets for various types of relations and functions							
	(A) Ravi wishes to form all the relations possible from B to G. How many such							
	relations are possible.							
	(B) Ravi wants to know among those relations; how many functions can be							
	formed from B to G.							
	(C) Let a relation be defined by $R_b = \{ (b_1, b_2) : b_1 \text{ and } b_2 \text{ both are boys} \}$ , Show							
	that this relation R is equivalence relation.							
	OR							
	(C) Let a relation be defined by $R_g = \{ (g_1, g_2): g_1 \text{ and } g_2 \text{ both are girls} \}$ , Show							
	that this relation R is equivalence relation.							
37	The relation between the height of the plant (y in cm) with respect to exposure							
	to sunlight is governed by the following equation							
	$y = 4x - \frac{x^2}{2}$ where x is the number of days exposed to sunlight.							



- (A) Find the rate of growth of the plant with respect to sunlight.
- (B) What is the number of days it will take for the plant to grow to the maximum height.
- (C) Verify that height of the plant is maximum after four days by second derivative test and find the maximum height of plant.

OR

(C) What will be the height of the plant after 2 days.

probabilities that he will come by train, bus, scooter or by other means of transport are respectively  $\frac{3}{10}$ ,  $\frac{1}{5}$ ,  $\frac{1}{10}$  and  $\frac{2}{5}$ . The probabilities that he will be late are  $\frac{1}{4}$ ,  $\frac{1}{3}$  and  $\frac{1}{12}$  if he comes by train, bus and scooter respectively, but if he comes by other means of transport, then he will not be late. On the basis of above information, answer the following questions.

- (A) Find the probability that he is late.
- (B) When he arrives, he is late. What is the probability that he comes by train.
- (C) When he arrives, he is late. What is the probability that he comes by bus.

OR

(C) When he arrives, he is late. What is the probability that he comes by scooter.



# KENDRIYA VIDYALAYA SANGATHAN BHUBANESWAR REGION PRE-BOARD EXAMINATION 2025-26

CLASS XII SUBJECT: PHYSICS (042)

MAXIMUM MARKS: 70 TIME ALLOWED: 3 HOURS

#### **General Instructions:**

- (i) This question paper contains 33 questions. All questions are compulsory.
- (ii) This question paper has five sections: Section A, B, C, D and E.
- (iii) In Section A- Questions no. 1 to 16 are Multiple Choice type questions. Each question carries 1 mark.
- (iv) In Section B- Questions no. 17 to 21 are Very Short Answer type questions. Each question carries 2 mark.
- (v) In Section C-Questions no. 22 to 28 are Short Answer type questions. Each question carries 3 marks.
- (vi) In section D-Questions no. 29 and 30 are case study-based questions. Each question carries 4 marks.
- (vii) In section E- Questions no-31 to 33 are long Answer type questions. Each question carries 5 marks.
- (viii) There is no overall choice. However, an internal choice has been provided in few questions in all sections except Section A.
- (ix) Use of calculator is not allowed.
- You may use the following values of physical constants wherever necessary:  $c = 3x10^8 m/s$ ,  $h = 6.63x10^{-34} Js$ ,  $e = 1.6x10^{-19} C$ ,  $\mu_o = 4\pi \times 10^{-7} TmA^{-1}$ ,

$$\epsilon_{\text{o}} = 8.854 \; \text{x} \; 10^{\text{-}12} \; \text{C}^{2} \text{N}^{\text{-}1} \text{m}^{\text{-}2} \; , \\ \frac{1}{4\pi\epsilon_{o}} = 9 \; \text{x} \; 10^{9} \; \text{Nm}^{2} \text{C}^{\text{-}2} \quad , \label{epsilon}$$

Mass of electron =  $9.1 \times 10^{-31} \text{ Kg}$ 

Mass of neutron =  $1.675 \times 10^{-27} \text{Kg}$ 

Mass of proton =  $1.673 \times 10^{-27} \text{ Kg}$ 

Avogadro's number =  $6.023 \times 10^{23}$  per gram mole

Boltzmann constant = 1.38 x 10<sup>-23</sup> JK<sup>-1</sup>.

SECTION-A				
Q.N	QUESTION	MM		
1	The plates of a parallel plate capacitor are 4cm apart, the first plate is at 300V and second plate at -100 V. The voltage at 3 cm from the second plate is  (a) 200V (b) 400V (c) 250V (d) 500 V	1		
2				
	(a) v/4 (b) v/2 (c) v (d) 4v			
3	A heater coil rated as (P,V) is cut into two equal parts. One of the part is then connected to a battery of V volt. The power consumed by it will be  (a) P (b) P/2 (c) P/4 (d) 2P	1		

4	Beams of electron and protons move parallel to each other in the same direction. They  (a)Attract each other  (b) repel each other  (c) neither repel nor attract  speed of beam  (b) attraction or repulsion depends upon	1
5	The phase difference between Current and voltage in LCR series circuit at a stage when the impedance of circuit become minimum is: (a) $\pi$ (b) $\pi/2$ (c) $\pi/3$ (d) Zero	1
6	When we move magnetic compass from point P to Q then which of the following statement is true  Q  (a) The deflection of the magnetic needle at P and Q will be in the same direction.  (b) The deflection of the magnetic needle at P and Q will be in the opposite directions.  (c) The deflection of the magnetic needle at P and Q will be perpendicular to each other  (d) The deflection of the magnetic needle at P and Q will be inclined at 450 with respect to each other	1
7	The rms value of the alternating current shown in figure	
	I / Ω A A A A A A A A A A A A A A A A A A	
	a) Zero b) 2A c) 4A d) 16A	1
8	Displacement current exists only when  a) Electric field is changing b) Magnetic field is changing c) Electric filed is not changing d) Both electric and magnetic fields are not changing.	1

		1
9	For a glass prism, the angle of minimum deviation will be smallest for the light of	1
	a) Red colour b) blue colour c) yellow colour d) green colour	
10	When a wave undergoes reflection at an interface from rarer to denser	
	medium, adhoc change in its phase is	1
	a) $\pi/2$ b) 0 c) $\pi$ d) $\pi/4$	
11	When an electron in an atom goes from a lower to a higher orbit, its	
	a) kinetic energy increases, potential energy decreases	
	b) kinetic energy increases, potential energy increases	1
	c) kinetic energy decreases, potential energy increases	
	d) kinetic energy decreases, potential energy decreases	
12	The curve of binding energy per nucleon as a function of atomic mass number	
	has a sharp peak for Helium nucleus. This implies that Helium nucleus is	
	a) Radioactive b) unstable	1
	c) easily fissionable d) more stable nucleus than its	-
	neighbours	
For (	Questions 13 to 16, two statements are given one labelled Assertion (A) a	nd other
	led Reason (R). Select the correct answer to these questions from the op-	
	1 below.	Mioris as
_	oth Assertion and Reason are true and Reason is the correct explanation of Asser	tion
	oth Assertion and Reason are true but Reason is not the correct explanation of As	
	ssertion is true but Reason is false.	ocition.
` '	Soth Assertion and Reason are false.	
13	Assertion: Electrostatic field lines start at positive charges and end at	
13	negative charges.	
		1
	<b>Reason</b> : Fields lines are continuous curves without any breaks and they form	1
4.4	closed loop.	
14	<b>Assertion</b> : The focal length of a concave mirror is f & an object is placed at a	
	distance x from the focus. The magnification produced by the mirror is f/x.	
45	Reason: Magnification = size of image/size of object.	1
15	<b>Assertion</b> : When the apparatus of Youngs double Slits Experiment is brought	
	in a liquid from air, the fringe width decreases.	1
40	Reason: The wavelength of light decreases in the liquid.	
16	<b>Assertion</b> : The total energy of an electron revolving in any stationary orbit can	
	not be positive.	1
	Reason: Total energy can have positive or negative values.	
	Section - B	
17	Two charged conducting spheres of radii <b>a</b> and <b>b</b> are connected to each other	_
	by a wire .Find the ratio of the electric fields at their surfaces.	2
18	Two wires $X$ and $Y$ have the same resistivity but their cross sectional areas are	
	in the ratio 2:3 and lengths in the ratio 1:2. They are first connected in series	2
	and then in parallel to a d.c. source. Find out the ratio of the drift speeds of the	
	electrons in the two wires for the two cases.	
19	Electromagnetic waves with wavelengths-	
	(i) $\lambda_1$ are used in TV remote controls	
	(ii) $\lambda_2$ are used by a F.M. radio station for broadcasting	
	(iii) $\lambda_3$ are used to study the crystal structure of materials	2
	(iv) $\lambda_4$ are used LASER assisted eye surgery	
	Identify the name and part of electromagnetic spectrum to which these	
	radiations belong. Arrange these waves in increasing order of wavelength.	
20	An electron and a proton moving with the same speed, enter the same	
-	magnetic field region at right angles to the direction of the field.	
	(i) Show the trajectories followed by the two particles in the region of the	
	magnetic field.	
	1	<u> </u>

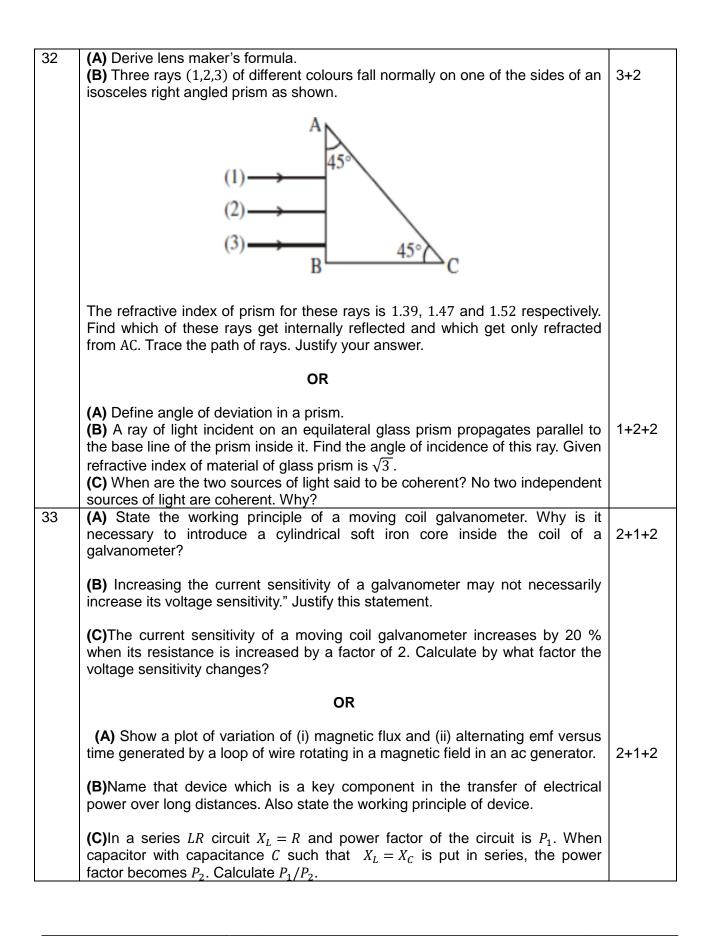
	(ii) Find the ratio of the radii of th describe.	e circ	ular pa	aths wh	nich the two particles may		
	describe.					2	
	x	x	x	x	x		
	x	x	x	x	x		
	P	x	x	x	x		
	e	x	x	x	x		
	x	x	x	x	x		
		OR					
	The given figure shows the varia applied magnetic field intensity H for a) Identify the material A and E b) Draw variation of Susceptib	or two 3.	magn	etic ma	aterial A and B.	2	
	-1	<b>→</b>	+н				
21	(a) Plot a graph showing variation of de-Broglie wavelength $\lambda$ versus $\frac{1}{\sqrt{V}}$ , where $V$ is accelerating potential for two particles $A$ and $B$ carrying same charge but of masses $m_1$ , $m_2(m_1 > m_2)$ .  (b) Which one of the two graphs represents a particle of smaller mass and why?						
	OR						
	Given the value of the ground state energy of hydrogen atom as -13.6 eV. Find out its kinetic and potential energy in the ground and second excited states.						
20			TION-(		MALE DI A		
22	Name a device which is used in the chargers of Mobile Phone/Laptop to convert High AC voltage into a very low DC voltage. On which property of p-n junction diode does it work? Draw circuit diagram, input and output waveforms of the device.					3	
23	State Huygens principle. Derive 2 <sup>th</sup> wave theory .	<sup>nd</sup> law	of ref	lection	on the basis of Huygen's	3	
24	A given coin has a mass of 3.0 g. required to separate all the net simplicity assume that the coin it <b>62.92960 u</b> ). The masses of protor respectively.	utrons s ent	and irely m	proton nade of	ns from each other. For f <sub>29</sub> Cu <sup>63</sup> atoms (of mass	3	
25	Draw a schematic ray diagram of of reflecting telescope over refracti		_	telesco	ppe. State the advantages	3	

26	a) A set of 'n' identical resistors, each of resistance 'R' when connected in series have an effective resistance 'X'. When they are connected in parallel, their effective resistance becomes 'Y'. Find out the product of X and Y.							
	<b>b)</b> A 10 V cell of negligible internal resistance is connected in parallel across a battery of emf 200 and internal resistance 38 $\Omega$ as shown in the figure. Find the value of current in the circuit.							
	10 V							
		3						
	200 V 38 Ω							
27	A bar magnet of magnetic moment 6 J/T is aligned at 60° with a uniform external magnetic field of 0.44 T. Calculate							
	<ul><li>(a) the work done in turning the magnet to align its magnetic moment</li><li>(i) normal to the magnetic field, (ii) opposite to the magnetic field, and</li><li>(b) the torque on the magnet in the final orientation in case (ii).</li></ul>	3						
	OR							
	Two identical circular coils, P and Q each of radius R, carrying currents 1 A and $\sqrt{3}$ A respectively, are placed concentrically and perpendicular to each other lying in the XY and YZ planes. Find the magnitude and direction of the net magnetic field at the Centre of the coils							
28	A small flat search coil of area 5 cm <sup>2</sup> with 140 closely wound turns is placed between the poles of a powerful magnet producing magnetic field 0.09 T and then after 7 second it is removed out of the field region. Calculate  (a) change of magnetic flux through the coil, and  (b) emf induced in the coil.							
	SECTION-D							
29	A PN junction diode is an essential component in many electronic circuits. When a p-type and an n-type semiconductor are joined, a depletion region forms at the junction. The behavior of the diode depends on whether it is forward biased or reverse biased. In forward bias, the diode allows current to flow, while in reverse bias, the current flow is minimal, except for a small leakage current. This property of a p-n junction diode makes it a suitable component for rectification of AC voltage /current easily. Consider a diode connected in a circuit with a power supply of 5V, a resistor of $100\Omega$ , and a current of $40\text{mA}$ in forward bias.							
	I. What is the depletion region in a PN junction?  a. The area where excess electrons accumulate in the p-type region  b. The area around the junction where immobile impurity ions are present  c. The region where mobile charge carriers are highly concentrated  d. The region outside the PN junction where recombination happens							
	<b>II.</b> What is the current through a diode with a 5V supply, a $100\Omega$ resistor, and a 0.7V forward voltage drop across the diode?							
	a. 30 mA b. 40mA c. 43mA d. 50mA							

	III. Based on V I characteristics of the diode,we can classify diode as a. Bilateral device b. Ohmic device c. Non – Ohmic device d. All of the above	1
	IV. Initially during the formation of PN junction a. Diffusion current is large & drift current is small b. Diffusion current is small & drift current is large c. Both current are large d. Both current are small  OR	1
	IV. How does the width of the depletion region change under different bias conditions?  a. In forward bias, it decreases; in reverse bias, it increases b. In forward bias, it remains constant; in reverse bias, it increases c. In forward bias, it increases; in reverse bias, it decreases d. In forward bias, it increases; in reverse bias, it remains constant	1
30	Figure shows the variation of photoelectric current measured in a photo cell circuit as a function of the potential difference between the plates of the photo cell when light beams A, B, C and D of different wavelengths are incident on the photo cell. Examine the given figure and answer the following questions:	
	Potential Difference  1. Which light beam has the highest frequency?	
	(a) A (b) B (c) C (d) D	1
	II. Which light beam ejects photoelectrons will maximum momentum?  (a) D  (b) C  (c) B  (d) A	1
	III. The stopping potential of a photocell, in which electrons with a maximum kinetic energy of 6 eV are emitted will be (a) -6V (b) 6V (c) 3V (d) -3V	1
	IV. Sodium and copper have work functions 2.3 eV and 4.5 eV respectively. Then the ratio of their threshold wavelengths is nearest to (a) 1:2 (b) 1:4 (c) 2:1 (d) 4:1	1
	OR IV. Which beam of light has maximum intensity?	1
	(a) D (b) C (c) A (d) B	'

(C)How is the field directed if the sheet is (i) positively charged (ii) negatively

charged?



#### 12PB24CHE04

#### KENDRIYA VIDYALAYA SANGATHAN, BHUBANESWAR REGION

#### PRE-BOARD EXAMINATION 2025-26

#### CHEMISTRY THEORY (043)

Max. Marks:70 Time: 3 hours

#### **GENERAL INSTRUCTIONS:**

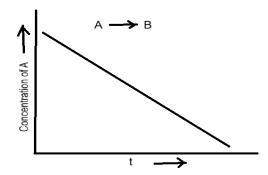
Read the following instructions carefully.

- a) There are 33 questions in this question paper with internal choice.
- b)SECTION A consists of 16 multiple-choice questions carrying 1 mark each.
- c)SECTION B consists of 5 short answer questions carrying 2 marks each.
- d)SECTION C consists of 7 short answer questions carrying 3 marks each.
- e)SECTION D consists of 2 case-based questions carrying 4 marks each.
- f) SECTION E consists of 3 long answer questions carrying 5 marks each.
- g)All questions are compulsory.
- h)Use of log tables and calculators are not allowed.

#### **SECTION A**

The following questions are multiple-choice questions with one correct answer. Each question carries 1 mark. There is no internal choice in this section.

1	Which one is most reactive towards SN <sup>1</sup> reaction?	1
1	a) C <sub>6</sub> H <sub>5</sub> CH(C <sub>6</sub> H <sub>5</sub> )Br	1
	b) C <sub>6</sub> H <sub>5</sub> CH(CH <sub>3</sub> )Br	
	c) C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub> Br	
	d) $C_6H_5C(CH_3)(C_6H_5)Br$	
2	Which one of the following order is wrong, with respect to the property indicated?  a) Aniline>cyclohexylamine>benzamide(basic strength)  b) Formic acid>acetic acid>propanoic acid(acid strength)  c) Benzoic acid>phenol>cyclohexanol(acid strength)  d) Fluoro acetic acid>chloroacetic acid>bromoacetic acid(acid strength)	1
3	In acidic medium two moles of MnO <sub>4</sub> -accepts how many moles of electrons in a redox process?	1
	a) 5 b) 3 c) 10 d) 1	



For a general reaction  $A \longrightarrow B$ , the plot of concentration of A vs time is given above. Based on this graph, order of the reaction, slope of the curve and the unit of rate constant respectively are

- a) Zero, -k, molL<sup>-1</sup>s<sup>-1</sup>
- b) First order,  $-\frac{k}{2.303}$ , s<sup>-1</sup>
- c) Zero,  $\frac{1}{2}k$ , Lmol<sup>-1</sup>s<sup>-1</sup>
- d) First, -k, s<sup>-1</sup>

 $CH_3CI \xrightarrow{NaCN} x \xrightarrow{Ni/H_2} Y \xrightarrow{acetic anhydride} X$ 

Z in the above reaction sequence is

- a) CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>NHCOCH<sub>3</sub>
- b) CH<sub>3</sub>CH<sub>2</sub>NH<sub>2</sub>
- c) CH<sub>3</sub>CH<sub>2</sub>NHCOCH<sub>3</sub>
- d) CH<sub>3</sub>CH<sub>2</sub>CONH<sub>2</sub>
- 6 Propene,  $CH_3CH = CH_2$  can be converted into 1-propanol by oxidation. Indicate which set of reagents amongst the following is ideal to effect the above conversion?
  - a) KMnO<sub>4</sub> (alkaline)
  - b) PCC
  - c) B<sub>2</sub>H<sub>6</sub> and alk. H<sub>2</sub>O<sub>2</sub>
  - d)  $O_3/Z_n$
- 7 The IUPAC name of [Ni(CO)<sub>4</sub>] is

1

1

1

- a) Tetracarbonyl nickel(II)
- b) Tetracarbonylnickel(0)
- c) Tetracarbonylnickelate(I)
- d) Tetracarbonylnickel(IV)
- **8** Which of the following pairs have a branched chain structure?
- 1

1

- a) Amylopectin, Amylose
- b) Amylose, Cellulose
- c) Cellulose, Glycogen
- d) Amylopectin, Glycogen
- **9** Which of the following ions has electronic configuration [Ar]3d<sup>6</sup>?
  - a)  $Ni^{3+}$
  - b) Mn<sup>3+</sup>
  - c) Fe<sup>3+</sup>
  - d) Co<sup>3+</sup> [Atomic numbers: Mn=25;Fe=26;Co=27;Ni=28]

10	The rate constant for the reaction $2N_2O_5 \rightarrow 4NO_2 + O_2$ is $3.10 \times 10^{-5}~\text{sec}^{-1}$ . If the rate is $2.4 \times 10^{-5}~\text{mollitre}^{-1}~\text{sec}^{-1}$ then the concentration of $N_2O_5$ (in mol litre <sup>-1</sup> ) is : (a) $0.04$ (b) $0.8$ (c) $0.07$ (d) $1.4$	1
11	The product(s) in the reaction, CH <sub>3</sub> − O − CH(CH <sub>3</sub> ) <sub>2</sub> + HI → Product a) ICH <sub>2</sub> OCH(CH <sub>3</sub> ) <sub>2</sub> b) CH <sub>3</sub> OCI(CH <sub>3</sub> ) <sub>2</sub> c) CH <sub>3</sub> I + (CH <sub>3</sub> ) <sub>2</sub> CHOH d) (d) CH <sub>3</sub> OH + (CH <sub>3</sub> ) <sub>2</sub> CHI	1
12	When phenol is treated with excess bromine water, it gives:  a) m-bromophenol b) 2,4-dibromophenol c) o - and p-bromophenol d) 2, 4, 6-tribromophenol Q 13-16 are Assertion – Reason type of questions. Choose answer from following options: a) Both A and R are true and R is the correct explanation of A b) Both A and R are true but R is not the correct explanation of A. c) A is true but R is false. d) A is false but R is true.	1
13	<b>Assertion</b> ( <b>A</b> ): The complex [CrCl <sub>3</sub> (NH <sub>3</sub> ) <sub>3</sub> ] does not give precipitate with AgNO <sub>3</sub> . <b>Reason</b> ( <b>R</b> ): The given compound does not contain counter ions.	1
14	<b>Assertion</b> (A): Reduction of 1 mol of silver ion requires 2F of charge. <b>Reason</b> (R):1F is equal to charge of 1 mol of electron.	1
15	Assertion : All naturally occurring $\alpha$ -aminoacids except glycine are optically active. <b>Reason</b> : Most naturally occurring amino acids have L-configuration.	1
16	<b>Assertion</b> : The enthalpy of reaction remains constant in the presence of a catalyst. <b>Reason</b> : A catalyst participating in the reaction, forms different activated complex and lowers down the activation energy but the difference in energy of reactant and product remains the same.	1
	SECTION B	
	This section contains 5 questions with internal choice in one question. The following questions are very short answer type and carry 2 marks each.	
17	$H_2S$ , a toxic gas with rotten egg like smell, is used for the qualitative analysis. If the solubility of $H_2S$ in water at STP is 0.195 m, calculate Henry's law constant.	2
18	What is lanthanoid contraction? Write it's two consequences.	2
19	Which one of the following will have drastic increase in molar conductivity with decrease in concentration and why? A=Formic acid. B=Hydrochloric acid	2

20	Answer any two:	2
	a) Why is Grignard reagent prepared in dry ether?	
	b) What happens when 1-Chloro butane is treated with alcoholic KOH?	
	c) Chlorobenzene is resistant to nucleophilic substitution reactions. Give reason?	
21	What happens when Glucose reacts with a	2
	a) mild oxidising agent and	
	b) strong oxidising agent	
	OR	
	Match the following enzyms given in Column I with the reactions they catalyse	
	given in Column II.	
	Column I (Enzymes) Column II (Reactions)	
	(i) Invertase (a) Conversion of glucose into ethyl alcohol	
	(ii) Maltase (b) Hydrolysis of maltose into glucose	
	(iii) Pepsin (c) Hydrolysis of cane sugar	
	(iv) Zymase (d) Hydrolysis of proteins into peptides	
	SECTION C	
	This section contains 7 questions with internal choice in one question. The following	
	questions are short answer type and carry 3 marks each.	
22	a) State Kohlrausch law of independent migration of ions.	3
	b) Calculate the number of Faradays required to produce 20g of calcium from moltenCaCl <sub>2</sub> .	
	(Atomic mass of calcium=40gmol <sup>-1</sup> )	
	c) Write the electrode reaction at the anode and cathode when aqueous copper sulphate	
	solution is electrolysed in presence of copper electrodes?	
23	a) Cr <sup>2+</sup> is a good reducing agent. Give reason.	1
	b) The potassium dichromate and chromates are interconvertible in aqueous solution	2
	depending upon pH of the solution. Explain the colour change with suitable reaction.	
24	How can you convert	1
<b>4</b> 4	How can you convert: a) But -2-ene to ethanal?	1
	b) Ethyl benzene to benzoic acid	1
	c) Chloromethane to ethanoic acid	1
	OR	
	$_{3}$ CH <sub>3</sub> MgBr + CH <sub>3</sub> CHO $\xrightarrow{\dot{H}}$ × $_{Identify}$ X?	
	a) Identify X?	
	b) Benzoic acid will not give Fridel-Crafts reaction. Give reason.	
	c) Write chemical equation for the reaction between N-phenyl hydrazene and ethanal?	
25	Which moieties of nucleosides are involved in the formation of phosphodiester linkages present in dinucleotides? What does the word diester in the name of linkage indicate? What dies involved in the formation of this linkage?	3 ich

- A compound 'A' used in alcoholic beverages on treatment with concentrated sulphuric acid at 443K produced compound 'B', which on oxidation with acidified KMnO<sub>4</sub> gives ethylene glycol. When metallic Sodium is added to compound A, Compound C is formed with liberation of hydrogen gas. Compound C when treated with methyl chloride produced compound D.
  - a) Write the mechanism of the reaction for the conversion of compound A to Compound B.
  - b) Conversion of compound C to compound D is a Named reaction. Identify the reaction.
  - c) Write chemical equation for conversion of C to D

2

1/2

2

- 27 a)

  CH<sub>3</sub>

  + HI

  peroxide

  write the product
  - b) Write Swarts reaction?
  - c) Identify A and B in the following:

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- Calculate Ecell for the redox reaction taking place in an Electrochemical Cell  $Mg(s) + Cu^{2+}(0.01M) \rightarrow Mg^{2+}(0.001M) + Cu(s)$ ,  $E^0cell = 2.71 \text{ V}$ .
- c) Write the overall reaction taking place in lead storage battery when the battery is in use.

#### **SECTION D**

The following questions are case-based questions. Each question has an internal choice and carries  $4\ (2+1+1)$  marks each. Read the passage carefully and answer the questions that follow.

**29** Read given passage and answer the questions that follow:

Chemical kinetics deals with rate of chemical reactions, how fast reactants get used up or how fast products are formed in the reaction. Differed chemical reactions have different speed. Rate of reaction depends upon concentration of reactants, temperature, pressure especially in gaseous reactions and presence of catalyst. Chemical reaction takes place as a result of collision between reacting molecules. The rate of reaction does not depend upon total number of collisions rather it depends upon number of effective collisions. In a redox reaction, if  $E^{\circ}$ cell is +ve,  $\Delta G^{\circ}$  will be –ve and 'K' equilibrium constant will be high i.e. products formed will be more than the reactants.

The rates of reaction between the reactants A and B were studied starting with different initial concentrations. The following data were obtained.

[A],mol lit <sup>-1</sup>	[B],mol lit <sup>-1</sup>	Initial rate, mol	At 320K
		lit <sup>-1</sup> s <sup>-1</sup> at 300K	
2.5 x 10 <sup>-4</sup>	3.0x10 <sup>-5</sup>	5.0x 10 <sup>-4</sup>	2.0 x 10 <sup>-3</sup>
5.0x 10 <sup>-4</sup>	6.0x 10 <sup>-5</sup>	4.0x 10 <sup>-3</sup>	
1.0 x10 <sup>-3</sup>	6.0x 10 <sup>-5</sup>	1.6 x 10 <sup>-2</sup>	

- a) What is the order of reaction with respect to A and B?
- b) Find the rate constant of the reaction at 300K when concentrations are in molL<sup>-1</sup> and time in seconds
- c) Write the substituted equation to calculate Energy of activation.

#### OR

d) Ea(Activation energy) and 'A' (Arrhenius constant) are  $104.4 \text{ kJ mol}^{-1}$  and  $6.0 \times 10^{14} \text{ s}^{-1}$  respectively. What is value of 'k' when T  $\rightarrow \infty$  (1)

2	•	•
Э	l	,

compounds	pKb	
CH <sub>3</sub> NH <sub>2</sub>	3.38	
(CH <sub>3</sub> ) <sub>2</sub> NH	3.27	
(CH <sub>3</sub> ) <sub>3</sub> N	4.22	
C <sub>2</sub> H <sub>5</sub> NH <sub>2</sub>	3.29	
$(C_2H_5)_2NH$	3.0	
$(C_2H_5)_3N$	3.25	
Aniline	9.38	
p-nitro aniline	13.0	
p-Toludine	9.21	
	CH <sub>3</sub> NH <sub>2</sub> (CH <sub>3</sub> ) <sub>2</sub> NH (CH <sub>3</sub> ) <sub>3</sub> N  C <sub>2</sub> H <sub>5</sub> NH <sub>2</sub> (C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> NH (C <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> N  Aniline p-nitro aniline	CH <sub>3</sub> NH <sub>2</sub> 3.38 (CH <sub>3</sub> ) <sub>2</sub> NH 3.27 (CH <sub>3</sub> ) <sub>3</sub> N 4.22 C <sub>2</sub> H <sub>5</sub> NH <sub>2</sub> 3.29 (C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> NH 3.0 (C <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> N 3.25 Aniline 9.38 p-nitro aniline 13.0

Read the table and answer the questions given below.

- a) What is the decreasing order of the basicity of CH<sub>3</sub>NH<sub>2</sub>,(CH<sub>3</sub>)<sub>2</sub>NHand (CH<sub>3</sub>)<sub>3</sub>N Mention the reason.
- b) Compare the basicity of aromatic and aliphatic amines?
- c) pKb value of ammonia is not mentioned in the above table. Suggest a place in the above table.

#### OR

d) How can you convert ethanamine to methanamine?

#### **SECTION E**

The following questions are long answer types and carry 5 marks each. All questions have an internal choice.

- a) Draw the geometrical isomerism shown by the complex[CoCl<sub>2</sub>(en)<sub>2</sub>]
  - b) What is the hybridisation and magnetic nature involved in complex[Ni(CN)<sub>4</sub>]<sup>2</sup>-

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	c) Write the correct electronic configuration of the central atom in	1
	(i) $K_4[Fe(Cl)]_6$ ] (ii) $[Ni(en)_3]Cl_3$ based on crystal field theory?	
	d) A coordination compound is red in colour. How can you infer about the CFSE of the complex	
	OR	
	a) $[Ti(H_2O)_6]^{3+}$ is coloured while $[Sc(H_2O)_6]^{3+}$ is colourless.	
	b) $[Cr(en)_3]^{3+}$ is more stable than $[Cr(NH_3)_6]^{3+}$	1
	c) Arrange the following complex ions in increasing order of CFSE ( $\Delta_0$ )	1 1
	$[CrCl_6]^{3-}$ , $[Cr(CN)_6]^{3-}$ , $[Cr(NH_3)_6]^{3+}$	1
	d) Draw the isomers of $[Co(NH_3)_3Cl_3]$	_
	e) Write the IUPAC name of the ionisation isomer of [Co(NH <sub>3</sub> ) <sub>5</sub> (SO <sub>4</sub> )]Cl	1
		1
32	a) Distinguish bet ween the following pair of compounds with a chemical test.	2
	<ul><li>(i) Phenol and benzoic acid</li><li>(ii) Acetone and pentan-3-one</li></ul>	
	b)	1
		-
	$\langle \rangle$ OH $\stackrel{\text{CrO}_3}{\longrightarrow}$	
	c) Write: (i)Cannizzaro reaction. (ii) H-V-Z reaction.	2
	OR	1
	a) Acetaldehyde, Acetone, Di-tert-butyl ketone, Methyl tert-butyl ketone	
	(Increasing order of reactivity towards HCN)	
	b) An organic compound 'A' with molecular formula C <sub>4</sub> H <sub>8</sub> O <sub>2</sub> undergoes acid hydrolysis to form two compounds B and C .Oxidation of C with acidified KMnO <sub>4</sub> also produces B.	
	Sodium salt of B on heating with soda lime KMnO <sub>4</sub> also produces B.	
	i) Identify A,B	1
	ii) Out of B and C which will have higher boiling point? Give reason?	1
	iii) What is the type of reaction that gives methane as mentioned above. Write it's equation.	2

RBC neither swell nor undergo plasmolysis in 0.9% solution of Pure NaCl. Give 1 reason. Which Pure water or salt water of the same volume boils faster? Give reason. 1 b) The temperature at a hill station is -10°C. Will it be suitable to add ethylene 3 glycol(mol.mass 62) to water in the radiator so that the solution is 40% by mass?( K<sub>f</sub> for water =1.86Kkgmol<sup>-1</sup>) OR What type of deviation from Raoult's law is exhibited by a mixture of chloroform and 2 a) acetone? Will its mixture show any increase or decrease in their boiling point? If yes Explain. 2g of benzoic acid dissolved in 25g of benzene shows a depression in freezing point 3 equal to 1.62K.Molal depression constant for benzene is 4.9Kkgmol<sup>-1</sup>.What is the percentage association of acid if it forms dimer in solution

\*\*\*\*\*\*\*\*\*\*\*

#### KENDRIYA VIDYALAYA SANGATHAN, BHUBANESWAR REGION

#### PRE-BOARD EXAMINATION (2025-26)

#### **CLASS-XII**

SUBJECT: BIOLOGY (044)

#### Maximum Marks-70

Time Allowed-03 hours

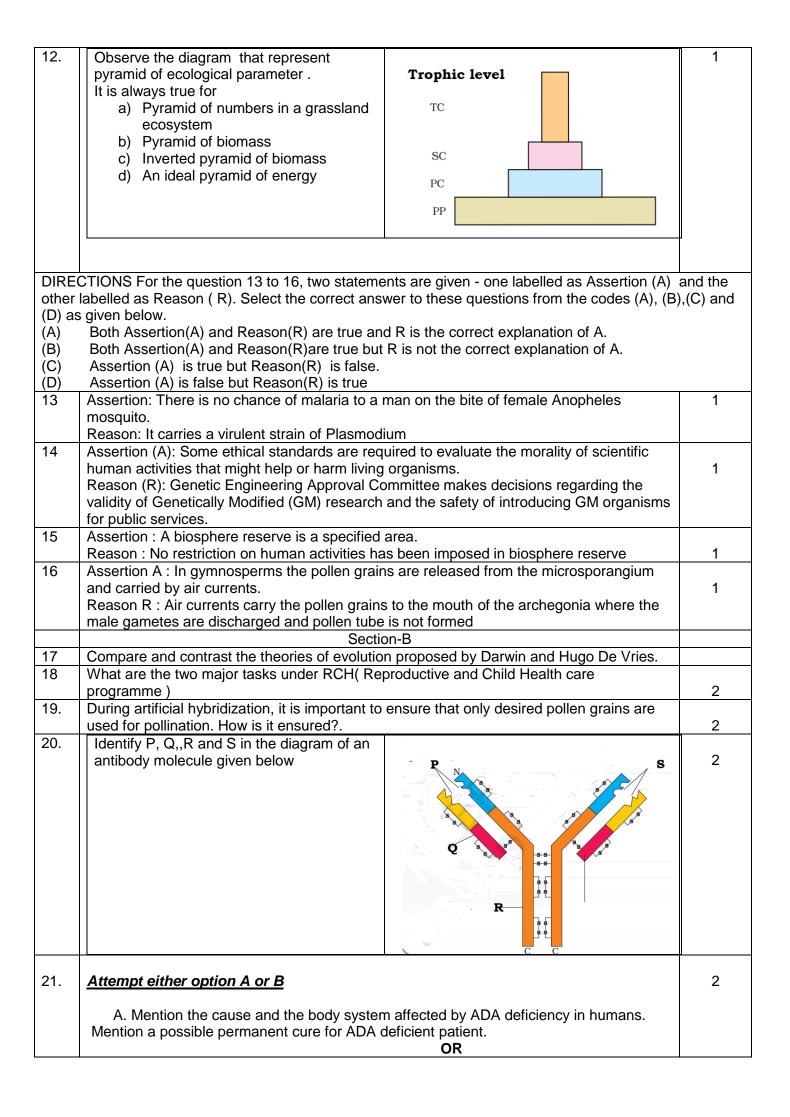
#### **General Instructions:**

Read the following instructions carefully and follow them:

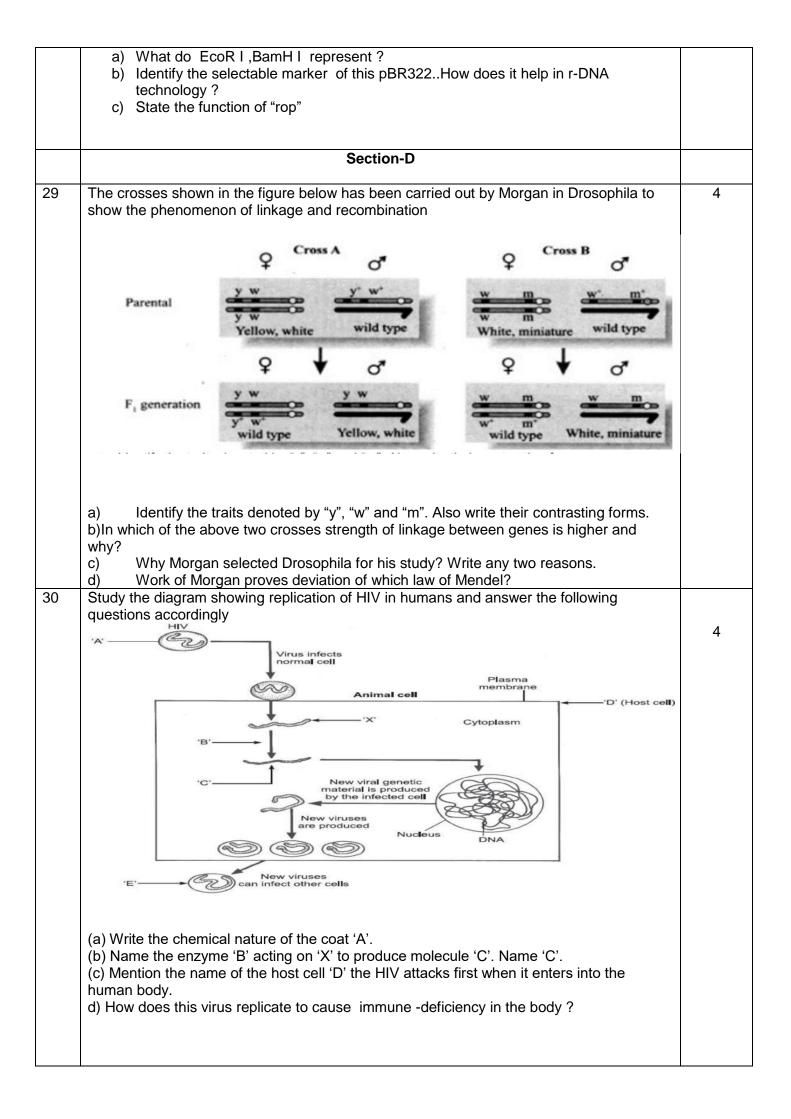
- i. This Question Paper contains 33 questions. All questions are compulsory
- ii. Question paper is divided into five sections Sections A ,B, C, D and E.
- iii. Section A- questions number 1 to 16 are multiple choice type questions . Each questions carries 1 mark.
- iv. Section B- questions number 17 to 21 are very short answer type questions .Each questions carries 2 marks.
- v. Section C- questions number 22 to 28 are short answer type questions . Each questions carries 3 marks.
- vi. **Section D-** questions number **29 and 30** are Case based questions .Each questions carries **4** marks. Each question has subparts with internal with internal choice in one of the subparts.
- vii.Section E- questions number **31 to 33** are Long answer type questions .Each questions carries **5** marks
- viii. There is no overall choice. However internal choices have been provided in Section B,C,D and E of the question paper. A candidate has to write answer for only **one** of the alternatives in such questions.
- ix. Wherever necessary, Neat and properly labeled diagrams should be drawn

#### Section-A Q. No. 1 to 12 are multiple choice guestions. Only one of the choices is correct. Select and write the correct choice as well as the answer to these questions. Q. Questions Marks No. 1 In a population of 1000 individuals 360 belongs to genotype AA, 480 to Aa and the 1 remaining 160 to aa. Based on this data, the frequency of allele a in the population is a) 0.4 0.5 c) 0.6 0.7 b) 2 A pink flowered Snapdragon plant was crossed with a red flowered Snapdragon plant. 1 What type of phenotype/s is/are expected in the progeny? (a) Only red flowered plants (b) Red flowered as well as pink flowered plants (c) Only pink flowered plants (d) Red, Pink as well as white flowered plants In vitro fertilization is a technique that involves transfer of which of the following into the 3 1 uterus? Zygote only a) Embryo only, up to 8 cell stage b) c) Embryo with more than 8 blastomere Embryo of 32 cell stage Identify Which of the following are the reason(s) for Rheumatoid arthritis? Choose the 1 4 correct option. i. The ability to differentiate pathogens or foreign molecules from self cells increases. ii. Body attacks self-cells iii. More antibodies are produced in the body iv. The ability to differentiate pathogens or foreign molecules from self-cells is lost (a) i and ii (d) i and ii (b) ii and iv (c) iii and iv 5 Histones are enriched with-1 (a) Phenylalanine & Leucine (b) Phenylalanine & Arginine (c) Lysine & Arginine (d) Leucine & Lysine

6	Pollen grains remain preserved as fossils due to the presence of (a) Tapetum (b) Exine layer (c) Intine layer d) Epidermal layer	1
7	Which one of the following NOT a male sex accessory duct?  a) Rete testis b) vasa efferentia c) Epidydymis d) seminiferous tubules	1
8	Identify the part of a bio-reactor which is used as a foam braker from the given figure.  a) A b) B c) C d) D  Acid/Base for pH control Steam for sterilisation  D  Sterile Air	1
9	The particular flavour of swiss cheese is due to a  (a) Bacteria  (b) Protozoa (c) Virus (d) Fungi	1
10	The population growth curve applicable for a population of beetles growing in nature under limited resource conditions available to them will be  (B) Application density of the population of beetles growing in nature limited resource conditions available to them will be  (C) Time Time Time Time Time Time Time Time	1
11.	Which of the following is not true?  a) It is generally believed that competition occurs when closely related species compete for the same resources that are limiting b)resources need not be limiting for competition to occur c) competition is best defined as a process in which the fitness of one species (measured in terms of its 'r' the intrinsic rate of increase) is significantly lower in the presence of another species d) competitive exclusion occurring in nature is always conclusive.	1



	D114 :	(		- (b	ATOO OLTI-	1
			•	s the sequence- 5' - GG	ATCC - 3'. The	
	restriction activity of this enzyme is between G and G.  A. Construct the palindrome for the above sequence					
	B. PBR322 is a plasmid that has a restriction site for this enzyme at the tetracycline					
	resistant gene. If BamH1 were to be used, how will it impact the response of the					
		•		picillin and tetracycline.	•	
			SECTIO	•		
22	State the me	edicinal value and th		ecules produced by Stre	ptococcus,	3
	Monascus a	nd Trichoderma			•	
23				influence in driving major		3
			Paul Ehrlich exp	lain this concept in his 'r	ivet popper	
	hypothesis'?	)				
	(1-) (1) 1 1 1-	and the defendant has	OR	- Laba Matawa in East A	(fot a a la a al a	
				o Lake Victoria in East A	Africa had a	
		effect on the indige		ine lake? e posed a threat to the e	vistance of our	
	native speci	•	ecies willer have	e posed a lineal to the e	Alsterice of our	
24			genesis and ood	genesis in humans on the	e basis of the	
	following:		9	,		3
	(a) When the	e process is initiate	d.			
	(b)Number of	of functional gamete	es produced per	primary spermatocyte /o	ocyte.	
		site at which meiosi				
25.	` '		unction of a t-RN	IA molecule. Why is it re	ferred to as an	
	adapter mol		NIA I I		DNIA	3
00			NA undergoes b	efore it leaves the nucle	us as mRNA.	
26.		her option A or B	wamid of opera	, is always unright. On th	as other hand the	2
				y is always upright. On th and inverted. Explain wi		3
		nples and sketches.	. •	and inverted. Explain wi	ur trie rielp or	
	CXUIT	ilpies and sketeries.	OR			
	В.					
	((i) Write the	parasitic adaptatio	ns the parasites	have evolved in accorda	ance with their	
	lifestyles.					
	(ii) Hosts an	d parasites tend to	co-evolve. Expla	ain		
27.	Identify 'a', '	b', 'c', 'd', 'e' and 'f '	in the table give	en below.		
						3
	No.	Syndrome	Cause	Charact-	sex	
				eristics of	male/	
				affected	female/	
				individuals	both	
	1.	Down's	Trisomy of 21	'a' (i) (ii)	'ь'	
	2.	'c'	XXY	Overall	'd'	
			^^1	masculine	"	
				development		
	3.	Turner's	45 with	'e' (i), (ii)	'f'	
			XO			
28.	The diagram	n below refer to PBF	 R322			
20.						3
		R I Cla I Hi	ind III			
	Pvu I					
	Pst I	R		BamH I		
		amp <sup>R</sup>	tet <sup>R</sup>			
		pBR32	2	-Sal I		
		G THE				
		ori				
	•	\				
			Pvu II			



#### Section -E

#### 31. Attempt either option A or B

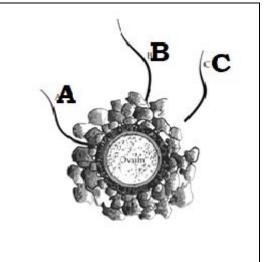
- A) Explain the ovarian and uterine events taking place along with the role of pituitary and ovarian hormones, during the menstrual cycle in a normal human female under the following phases
- 5

- i) Follicular/ proliferative phase
- iii) Menstrual phase
- ii) Luteal/ secretory phase

OR

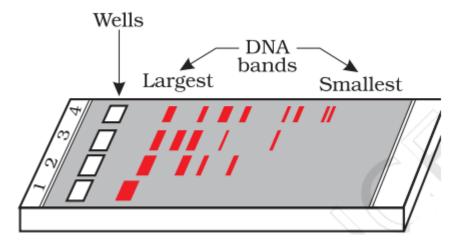
В.

- :Given below is the diagram of a human ovum surrounded by a few sperms. Observe the diagram and answer the following questions:
- (i) Compare the fate of sperms shown in the diagram.
- (ii) What is the role of zona pellucida in this process?
- (iii) Analyze the changes occurring in the ovum during the process.
- (iv) How is the entry of sperm into the ovum facilitated?
- (v) Specify the region of female reproductive system where the event represented in the diagram takes place



#### 32 Attempt either option A or B

The following diagram depicts the process of separation and isolation of DNA fragments



- a) The fragments can be be separated by a technique .What is the technique called?
- b) Without following proper procedure, it is very difficult to isolate the desired fragments of DNA, write the step sequence wise.
- c) State one use of this technique

OR

	B. Answer the following questions based on Bt-crops:  (i) Why do farmers prefer to grow Bt cotton crop than genetically unmodified cotton crops?  (ii) Name any two insects that are killed by Bt toxin.  (iii) Explain the mechanism by which Bt toxin kills the insects but not the bacterium which possesses the toxin	
33	Attempt either option A or B  A. (i)Given below is a DNA sequence and the genetic code of a template strand.  Answer the questions based on these, assuming no post-transcriptional or post-translations modifications will take place. 3'- TACATGCCGTACTGTACC –5'	5
	<ul><li>(a) Write the nucleotide sequence that will be obtained on transcription of this DNA sequence.</li><li>(b) Will translation of this sequence take place? Give a reason to support your answer.</li><li>(ii) Give a labelled schematic representation of "lac operon" in its "Switched Off" position</li></ul>	
	B.  Paternal chromosome Chromosome 7 Chromosome 2 Chromosome 2 Chromosome 2 Chromosome 16 Chromosome 16 DNA from individual A DNA from individual B	
	Number of short tandem repeats  Chromosome 7  Chromosome 16  DNA from crime scene (C)  Amplified repeats, separated by size on a gel.  Which individual was most probably present at the scene ? Give reason to support your answer .	
	<ul> <li>b) Explain VNTR and describe its role in DNA fingerprinting.</li> <li>c) List any two situation where we can use this technique except paternal testing and crime Scene.</li> <li>d) Help your friend to identify P,Q,R,S of steps of DNA fingerprint.</li> <li>(I) Isolation Of DNA (II) Digestion Of DNA By "P" (III)</li> <li>Separation Of DNA Fragments By "Q" (IV) Transferring (Blotting) Of Separated DNA Fragments To Synthetic Membranes, Such As Nitrocellulose Or Nylon, (V) "R" Using Labelled VNTR Probe (VI) "S" Of Hybridized DNA Fragments By Autoradiography</li> </ul>	

# KENDRIYA VIDYALAYA SANGATHAN, BHUBANESWAR REGION

## PRE-BOARD EXAMINATION (2025-26)

## **Class XII**

**Subject: BIOTECHNOLOGY (045)** 

Maximum Marks: 70 Maximum Time Allowed: 3 hours

#### **General Instructions:**

- The question paper has five Sections. All questions are compulsory.
- Section-A contains 12 Multiple choice questions and 4 Assertion-Reasoning II. based questions of 1 mark each;

Section-B has 5 short answer questions of 2 marks each;

Section-C has 7 short answer questions of 3 marks each;

Section-D has 2 case-based question of 4 marks;

Section-E has three long answer questions of 5 marks each.

III. There is no overall choice. However, internal choices have been provided in some questions. A student must attempt only one of the alternatives in such questions.

<u> </u>	SECTION-A (ONE MARK EACH)	
I. Which of the following is not a correct stat	tement about monoclonal antibodies?	(1)
<ul><li>b. Monoclonal antibodies are used for the</li><li>c. Monoclonal antibodies producing Hybr</li></ul>	e diagnostics and therapeutics ridoma cells are fusion of B-Cell and Myeloma cell.	
2. The relatively high level of auxin to cytoki	inin favoured during organogenesis.	(1)
a) Root formation b) S	Shoot formation	
c) Both root and shoot formation d) Al	II of the above	
methods may be used- (i) Use of DNA Ligase (ii) Use of Alkaline Phosphatase		(1)
<u>-</u>		
1. Alcaligenes eutrophus is associated with t	the production of	(1)
(a) Streptomycin (b)	Penicillin	
(c) Hepatitis antigen (d)	Poly 3-hydroxybutyrate	
3	a. Monoclonal antibodies are highly speced. Monoclonal antibodies are used for the c. Monoclonal antibodies producing Hybered. In Monoclonal antibody producing hybered. In Monoclonal antibody producing hybered. The relatively high level of auxin to cytoken a) Root formation b) Second by Second b	a) Root formation b) Shoot formation c) Both root and shoot formation d) All of the above To reduce the possibility of re-ligation of vector without picking insert, the following method or nethods may be used- (i) Use of DNA Ligase (ii) Use of Alkaline Phosphatase (iii) Use of two different Restriction enzymes for cloning (iv) Hybridoma technology  Select the correct answer from options below a. (i), (iv) b. (ii), (iii) c. (iii), (iv) d. (ii), (iv)  Alcaligenes eutrophus is associated with the production of (a) Streptomycin  (b) Penicillin

SET-1

•	ed an experiment to experiment experiment to experiment experiment to experiment	press Hepatitis B surf	ace antigen in potatoes.	(1)
a) Increase nutrients	content b) Ind	duce immunity		
c) Produce insulin	d) Ind	duce rapid growth		
6. A genetically modif gene. What is the li	•	ess ethylene due to su	press of expression of ACS	(1)
a)Faster ripening	b)Reduce	d sugar content		
c) Delayed ripening	d) Increas	ed disease resistance		
	a selective medium to eria .Which type of cul		es to favour the growth of	(1)
a) Pure culture	b) Enriched culture	c) Mixed culture	d) Differential culture	
8. Which database	will you search for	Phylogenetic analys	sis?	(1)
a)EMBL	b) PDB	c) UniProtKB	d) PALI	
•	a molecular weight of 1 spectrometric analysis		a charge of 5+ and was charge ratio.	(1)
a) 2001	b) 2000	c) 2501	d) 5001	
-	yme is engineered to lat problem does th		n by surfactants in	(1)
a)Poor solubility	in water b)High	production cost		
c)Loss of enzym	e activity d)Inabi	lity to remove oil sta	ain	
nucleotides & rep		e. She also used two	probe by removing few enzymes namely-M & N. he probes.	(1)
a) Process- Nick	translation, M- DNase	I, N- DNA Pol I		
b) Process- Dide	oxy Chain Terminatior	n, M- DNase I, N- DNA	Pol I	
c) Process- Nick	translation, M- RNA P	ol I, N- DNase I		
d) Process- Dide	oxy Chain Terminatior	n, M- RNA Pol I, N- DN	lase I	
	owing may be used as GATCGTAGCAGT?	a probe for the sequen	ce -	(1)
a CGATCGT	AGC b GCTAG	CATCG		

GTAGCAGT

c.

d. ATTGCGATCG

Question No. 13 to 16 consist of two statements – Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below:

- (a) Both A and R are true and R is the correct explanation of A.
- (b) Both A and R are true and R is not the correct explanation of A.
- (c) A is true, but R is false.
- (d) A is false, but R is true.
- 13. Assertion: The specific growth rate of a microorganism is a measure of how quickly its population increases per unit of biomass under defined conditions. (1)

Reason: Specific growth rate reflects the intrinsic growth capacity of a particular microorganism in all environments.

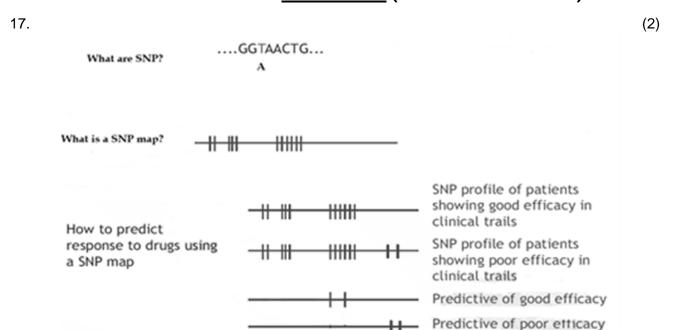
- 14. Assertion- Curd is used as a probiotic which is administered with an antibiotic. (1)Reason- Curd is a good source of beneficial bacteria that can colonise the intestinal tract after the use of antibiotics
- 15. Assertion: Maintaining a stable euploid karyotype is crucial for embryonic stem (ES) cells in culture.

Reason: Changes in chromosome number or structure can occur spontaneously.

16. Assertion: Virus free plants are regenerated through apical meristem culture. (1)

Reason: Apical meristem cells are devoid of viral infection.

#### **SECTION-B** (TWO MARKS EACH)



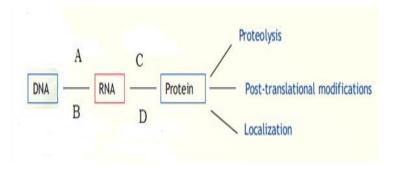
The figure above depicts a process used in diagnosis of a disease, carefully observe it and answer the following questions: (2)

- a. Write a sequence to show a possible SNP of the given sequence GGTAACTG.
- b. Mention any one beneficial SNP variation in the human genome?
- 18. A fungal extract has anti-cancer potential & it has shown positive result in clinical trials against childhood leukemia. However the active compound is present in very low concentration in the extract. Suggest two ways to increase the production of the metabolite by the fungal species.

- 19. The gene for a eukaryotic polypeptide hormone was isolated, cloned and over-expressed in a bacterium. After the polypeptide was purified from the bacterium, it failed to function in the organism from which the gene was isolated. Suggest all the possibilities why the recombinant protein was inactive.
- 20. Calculate the generation time of a bacterial population in which the number of bacteria increases from 10<sup>4</sup> /mL to 10<sup>8</sup>/ mL during four hours of exponential growth. (2)
- 21. Pure-line breeds of a plant are needed to carry out hybridization programme. As a student of Biotechnology suggest a way to obtain pure-line through Plant Tissue Culture. Explain the process in brief.

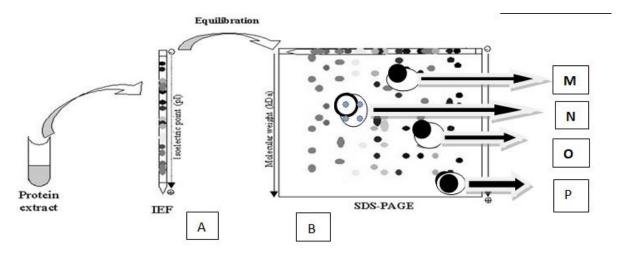
#### **SECTION-C** (THREE MARKS EACH)

- 22. a) Scientists discovered a population of microbes producing certain new antibiotic, in ocean water (3) samples. Suggest an approach most likely to be used to analysis genome of microbes as a whole and fish out the gene of interest producing novel molecules.
  - b) Enlist the steps to be followed for identification of these novel genes OR
  - a) Why is *Pichia pastoris* preferred over *Saccharomyces cerevisiae* for better expression of genes?
  - b) How would you ensure that production of a recombinant molecule does not occur until required?
- 23. The flow chart below depict processes through which genes can give rise to multiple protein products with differing functions. If A represents Transcription, C- Translation and B&D-Translational regulation

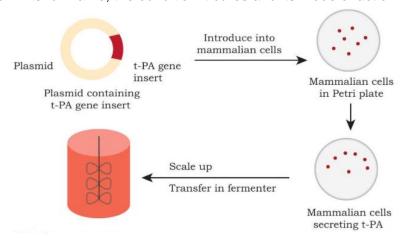


- a) Where among B and D would you find alternative splicing and mRNA editing?
- b) Analysis of mRNA does not provide an accurate reflection of the protein content in a cell. Why? (any two reasons)
- 24. An investigator is interested in studying the level of mRNA production from every gene in an eukaryotic organism. Name a technique he would use for completing his research work. & explain the steps of this technique.
- 25. a) How is rice genetically engineered to form Golden rice? Why are the seeds of rice yellow in (3) colour?
  - b) How has Golden rice been further modified to make it more nutritious?
- 26. a) What are Restriction enzymes? Which among them are extensively used in RDT?
  - b) What is Restriction-Modification system in bacterial cell? Describe it's both the components.

27. Carefully observe the technique of separation of proteins depicted below & answer the questions (3)

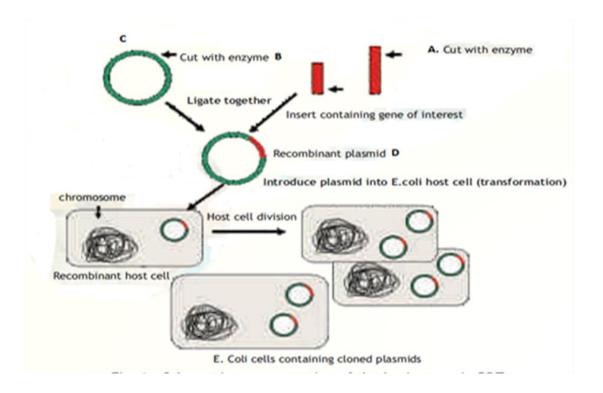


- . a) Why is this technique called 2-D gel electrophoresis?
  - b) Proteins **M**, **N**, **O** and **P** have been separated in B. Arrange these proteins in increasing order of molecular weight.
  - c) Identify A and state the principle involved in A.
- 28. The figure below represents the production of the first drug to be produced through mammalian culture. Write down its full name, the condition it cures and its mode of action.



## SECTION-D (FOUR MARKS EACH)

29. CASE STUDY – 1
Study the given figure given below and answer the following questions (4) {1+1+2}

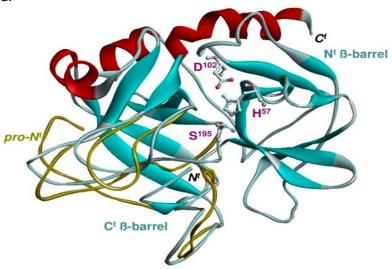


- a) If C has selectable markers- Amp<sup>R</sup> and lacZ genes and lacZ gene contains MCS, which selection method will you use to select the recombinant host cells
- b) Mention the composition of the medium that you will use for selection.
- c) State the principle of this selection method .

### 30. <u>CASE STUDY – 2</u> (4) {1+2+1}

Read the following passage and answer the following questions-

Normally the hydroxyl group of a serine residue is not acidic (pKa 12) and this is true for allother serine residues of chymotrypsin; only ser195 becomes acidic due to the unique constellation of the three amino acid residues because the protein has folded uniquely in space. You may be curious about the importance of an acidic serine residue. The negatively charged oxygen anion is able to make a nucleophilic attack on the carbonyl carbon of the peptide bond of its substrate, loosening it so that a water molecule can hydrolyse the bond.



- (i) The hydroxyl group of a Serine residue has a pKa of 12 that is it is not acidic. Why does serine become acidic chymotrypsin?
- (ii) Do you think that the charge relay system will work if Aspartic acid is replaced by Methionine? Give reason for your answer.
- (iii) How is chymotrypsinogen activated in situ in the duodenum?

Or

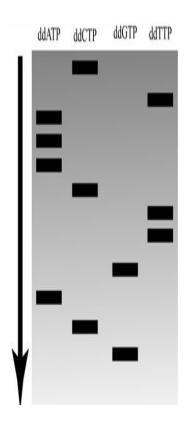
Why do organophosphates make enzymes with acidic serine residue inactive?

#### SECTION-E (FIVE MARKS EACH)

- 31. In the diagnosis of Tuberculosis, the older methods depended on culturing the causative (5) {1+2+2} bacillus from sputum. Newer methods include PCR-based assays.
  - a)What is the principle of PCR-based assay
  - b)Explain the steps of the process with neat & labelled diagrams.
  - c)How is PCR-based method more effective than culturing methods?

**OR** (5) {1+2+1+1}

- a) Write down the structure of dNTP & ddNTP
- **b)** Read autoradiogram given below and deduce the DNA sequence from it.
- c) What is the sequence of the original DNA?
- d) What is the chain terminator in Sanger's Method of DNA Sequencing? Why is it called so?



- 32. A diagnostic company has developed a kit of antibody which can detect Covid-19 antigen in nasal swabs . (5) {1+2+2}
  - a)What type of antibody is it?
  - b)Explain in detail the process involved in production of this antibody
  - c)How does it differ from antibodies that naturally present in blood

**OR** (5) {1+1+1+2}

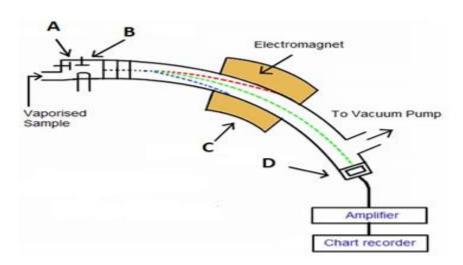
- a. What are Embryonic Stem (ES) cells?
- b. Where from these cells are derived?
- c. How are they maintained in culture?
- d. Mention any 2 properties of ES cells.
- 33. How does V.M Ingram prove that sickle cell anaemia results from an amino acid (5) {3+2} substitution in Haemoglobin? Elaborate the process in detail with flow chart.

OR

In the diagram given below:

 $(5) \{2+1+2\}$ 

- a. Identify A, B, C and D
- b. Name & explain any one technique that is carried out in part A of the instrument.
- c. Calculate the m/z ratio of a polypeptide that has a mass of 20 000 Da and charges +1, +2, +4, +5.



#### KENDRIYA VIDYALAYA SANGATHAN, BHUBANESWAR REGION

PRE BOARD EXAMINATION 2025-26

CLASS: XII

SUBJECT: COMPUTER SCIENCE (083)

Maximum Marks: 70 Time allowed: 3 Hours

#### General Instructions:

- This question paper contains 37 questions.
- All questions are compulsory. However, internal choices have been provided in some
- questions. Attempt only one of the choices in such questions.
- The paper is divided into 5 Sections- A, B, C, D and E.
- Section A consists of 21 questions (1 to 21). Each question carries 1 Mark.
- Section B consists of 7 questions (22 to 28). Each question carries 2 Marks.
- Section C consists of 3 questions (29 to 31). Each question carries 3 Marks.
- Section D consists of 4 questions (32 to 35). Each question carries 4 Marks.
- Section E consists of 2 questions (36 to 37). Each question carries 5 Marks.
- All programming questions are to be answered using Python Language only.
- In-case of MCQ, text of the correct answer should also be written.

Q No.	Section-A (21 x 1 = 21 Marks)	Marks
1	State if the following statement is True or False:	1
	import random	
	print(random.random()) will generate a floating point as 0.0 <= N <= 1.0	
2	What will be the output of the following code?	1
	L=[10,20,30,40]	
	print(L[6::-2])	
3	Consider the given expression:	1
	print(25/5 or 2.0+ 20/10)	
	Which of the following will be the correct output of the given expression?	
	a) 5 b) 5.0 c) 7.0 d) 4.0	
4	In SQL, which type of Join(s) does not contain duplicate column(s)?	1
5	What will be the output of the following Python code?	1
	s = "PYTHON"	
	print(s[-4:1:-1])	
	a) YTP b) HTYP c) T d) HTY	
6	Write the output of the following Python code :	1
	for i in range(1,5):	
	print(i,end=" ")	
	if i==3:	
	break	
7	What will be the output of the following Python statement:	1
	print(10-3**2**2+44/2)	
8	Consider the given MySQL Query:	1
	SELECT SUBJECT,COUNT(*) from STUDENT group by SUBJECT where	
	SUBJECT='PHYISCS' or SUBJECT='COMPUTER SC';	
	Archita is executing the query but not getting the correct output. Write the	
	correction.	
9	Which is the must execute block in Python program with Exception handing?	1
	a) try b) except c) finally d) all of these	
10	What will be the output of the following Python code?	1
	d = {True: 'Yes', 1: 'No', 1.0: 'Maybe'}	
	print(d)	
	a) {True: 'Yes', 1: 'No', 1.0: 'Maybe'} b) {True: 'Maybe'}	
	c) {True: 'No'} d) {1: 'Maybe'}	

11	What possible output is expected to be displayed on the screen at the time of execution of the Python program from the following code? import random  I = [10,20,30,40,50,60,70] p=random.randint(3,5) q=random.randint(5,6) r=p-2 s=q+1 for i in range(r,s):     print(I[i],end="#")  a) 30#40#50#60#70# b) 20#30#40#50#	1
40	c) 30#40#50# d) 40#50#60#	
12	What will be the output of the following code?  a=5  def fn():     global a     a=5  print(a, end = "")  fn() print(a) a) 5 error b) 5 5 c) error d) None of the above	1
13	How many Primary Key(s) a table maximum can contain?	1
14	a) 2 b) Can't say c) 1 d) As many as no of columns	4
14	What is the output of the given Python code?  s = "a:b:c:d"  result = s.partition(":")  print(result)  a) ('a', ':', 'b:c:d')  c) ('a', ':', 'b')  b) ('a:b', ':', 'c:d')  d) ('a:b:c', ':', 'd')	1
15	Yashita made a relation STUDENT of 5 rows and 3 columns, she added 2 rows and added 2 columns later. What will be the Degree of the relation after change?  a) 5 b) 7 c) 8 d)Can't Say	1
16	Which SQL command is used to remove a column from a table in MySQL?  a) UPDATE b) ALTER c) DROP d) DELETE	1
17	Subhashree is watching a video on YouTube. Which protocol is primarily responsible for data transmission?  a) FTP b) SMTP c) TCP/IP d) POP3	1
18	Which statement best describes a <b>gateway</b> ?  a) It connects devices within the same LAN. b) It connects two different networks with different protocols. c) It only forwards packets based on MAC addresses. d) It functions like a hub in the network.	1
19	What is designed to <b>store and transport data in a webpage? a)</b> HTML b) DHTML c) FTP d) XML	1
20	Q20 and Q21 are Assertion(A) and Reason(R) based questions. Mark the correct choice as:  (a) Both A and R are true and R is the correct explanation for A  (b) Both A and R are true and R is not the correct explanation for A  (c) A is True but R is False  (d) A is False but R is True  Assertion (A): The expression [1, 2, 3, 4].extend(5) in Python will modify the original	1
	sequence datatype. Reason (R): The extend() method adds a LIST to the end of a list and modifies the list in place.	
21	Assertion (A): A foreign key is a non-key attribute of a relation, which is Primary key of another relation. Reasoning (R): The relation may have more that one foreign key.	1

Q No.	Section-B ( 7 x 2=14 Marks)	Marks
22	A.Explain the difference between explicit and implicit type conversion in Python	2
	with a suitable example.	
	OR	
	B. Explain the difference between Keyword and Identifier with a suitable example.	
23	Sai Harshita, a Python programmer, is working on a project in which she wants to write a function to count the number of even and odd values in the list. She has written the	2
	following code but her code is having errors. Rewrite the correct code and underline	
	the corrections made.	
	define EOCOUNT(L):	
	even_no = odd_no = 0	
	for i in range(0,len(L)) if L[i]%2=0:	
	even_no+=1	
	else:	
	odd_no+=1	
	print(even_no, odd_no)	
24	A. (Answer using Python built-in methods/functions only):	2
	I. Write a statement to change the first letter of the sentence "very good work done "	
	to capital	
	II. Write a statement to remove the first occurrence of the element of list L1.  OR	
	B. Predict the output of the following Python code:	
	Text="Python is a funny language"	
	print( Text.partition("program")) print(Text.split("n"))	
25	A. Write a function Sorted_data() in Python that accepts a list L . The list L should be	2
20	sorted in descending order, kept it in a different list and must return the new list.  OR	_
	B. Write a Python function higest_scorer() that accepts a dictionary D1 containing	
	Name and scores. The function should find the name of the highest scorer of the	
00	student and print it.	
26	Predict the output of the Python code given below:	2
	fruit = { }	
	f1= ['Apple', 'Banana', 'apple', 'Banana']	
	for index in f1:	
	if index in fruit:	
	fruit[index] += 1	
	else: fruit[index] = 1	
	print(fruit)	
27	A. Write suitable commands to do the following in MySQL.	2
	View the list of databases present.	
	II. use the database "KVS"	
	OR B. Differentiate between DDL/DML query in SQL with a suitable example.	
28	A. Define the following terms:	2
	I. Bridge	_
	II. Gateway	
	OR	
	B.  Expand the following terms: Vol. and SMTP	
	I. Expand the following terms: VoIP and SMTP II. Differentiate between web server and web browser.	
	pr. Directinate between web server and web browser.	

Q No.	<b>Section-C (3 x 3 = 09 Marks)</b>	Marks	
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29	A. Write a Python function that count and display the number of three letters words	3
	appears in a text file named "File.txt".	
	OR	
	B. Write and call a Python function to read lines from a text file STORIES.TXT and	
	display those lines which starts with a vowel (A, E, I, O, U) irrespective of their case.	
30		3
	[student_name, age, hostel]	
	Write the following user defined functions to perform given operations on the stack named 'stud_details':	
	(i) Push_element() - To Push an object containing name and age of students who live in hostel "Ganga" to the stack	
	(ii) Pop_element() - To Pop the objects from the stack and display them. Also, display "Stack Empty" when there are no elements in the stack.	
	For example:	
	If the lists of customer details are:	
	["Deepesh",17,"Ganga"]	
	["Anish", 16,"Kaveri"]	
	["Dipak",19,"Yamuna"]	
	The output should be: ["Deepesh",17,"Ganga"]	
31	Stack Empty  A Prodict the output of the following Dython code:	3
31	A. Predict the output of the following Python code: str="Fun@Python3.0"	3
	m=""	
	for i in range(0,int(len(str)/2)):	
	if(str[i].isupper()):	
	m=m+str[i].lower()	
	elif str[i].islower():	
	m=m+str[i].upper()	
	else:	
	if i%2==0:	
	m=m+str[i-1]	
	else:	
	m=m+"#"	
	print(m)	
	OR	
	B. Predict the output of the following Python code:	
	student = {'Biswa': [78, 82, 89], 'Subhashree: [90, 85, 92], 'Rohan': [67, 73, 70]}	
	student['Subhashree'][1] = 95	
	student['Biswa].append(88)	
	student['Rohan'] = student['Rohan'][1:]	
	for name in sorted(student.keys()):	
	print(name, "=>", student[name])	

Q No.	Section-D ( 4 x 4 = 16 Marks)								
32	Consider the table ORDERS as given below:								
		_	TABLE- ORDEI	R					
	O_ld	C_Name	Product	Quantity	Price				
	1001	Jitendra	Laptop	1	12000				
	1002	Mustafa	Smartphone	2	10000				
	1003	Dhwani	Headphone	1	1500				
	1004	Alice	Smartphone	1	9000				
	1005	David	Tablet	NULL	7000				
	A) Write the SQL commands: a. To display the total Quantity for each Product, excluding Products with total Quantity less than 5. b. To display the ORDERS table sorted by total price in descending order. c. To display the distinct customer names from the ORDERS table. d. To display the sum of the Price of all the orders for which the quantity is NULL OR								

	<u> </u>								T	
	B) Write the output:									
	a. SELECT C_Name, SUM(Quantity) AS Total_Quantity FROM ORDERS GROUP BY C_Name;									
	b. SELECT * FROM ORDERS WHERE Product LIKE '%phone%';									
			_	me, Product, Qu	uant	tity, Pr	ice FROM (	ORDERS WH	IERE Price	
	BETWEEN 1500 AND 12000; d. SELECT MAX(Price) FROM ORDERS;									
33				r of a stationery		op. To	maintain da	aily sales, she	e created a	4
				with columns:	0	. го	Traintair at	any caree, crit	o o o o o o o o o o o o o o o o o o o	•
	Item_II	D, Item_Na	me, Qı	uantity_Sold, an	nd F	Rate.				
	M/rito F	ython func	tions to	o.						
	i.	•		o accept item d	etai	ls fron	n the user a	and append th	nem to the	
		CSV fi	e	•						
34	ii.			<u>() – to calculate</u> ⊢a Travel Datab						4
34				and JOURNEY t						4
	him ex	tract the re	quired	information by v						
	the tas	ks mention	ed bel	ow:						
				Table: TRAI	NSI	PORT	• 	_		
		CODE	VTYF	PE		PER	KM			
		101	VOL	/O BUS		160				
		102	AC D	ELUXE BUS		150				
		103	ORIE	INARY BUS		90				
		104	CAR			20				
		105	SUV			40				
				Table: \					,	
	No	NAME		TDATE	-	M	CODE	NOP		
	101	Janish Ki		2015-11-13	-	00	101	32	_	
	103	Vedika S		2016-04-21	-	00	103	45		
	105	Tarun Ra		2016-03-23	-	50	102	42		
	102	John Fen		2016-02-13	-	0	102	40		
	107	Ahmed K	han	2015-01-10	-	5	104	02		
	104	Raveena	N   A B 4-	2016-05-28		0	105	04		
	a. Iod NO.	ispiay NO,	NAME	, TDATE from t	ne t	adie I	KANSPOR	i in descend	iing order of	
		lisplay the I	NAME	of all the travelle	ers	from t	he table TR	RANSPORT W	vho are	
				code 101 or 10					DODT :	
				d NAME of those -12-31' and '201				table I KANS	PURT who	
				tails from table				travellers, wh	no have	
		ed distance		than 100 KM in						
	ii) To	OR display the	Carto	sian Product of	the	two t	ahles			
35	Omm S	Subham wa	nts to	write a program	in	Pytho	n to insert tl	ne following r	ecord in the	4
		amed Bank o – integer	_Acco	ount in MySQL d	lata	base,	Bank :			
		ne – string								
	<ul> <li>Atype</li> </ul>	e – string								
		ınt – float	to cot	oblich connecti	iit. ·	hoters	on Duthor :			
				ablish connectiv ssword – root · I				anu wysyl:	•	
	The va	lues of field	ds Acci	no, Cname, Aty <sub>l</sub>	ре а	and Ar	nount have	to be accept	ed from the	
	user. F	lelp Omm S	Subhar	n to write the pr	ogr	am in	Python.			

Q No.		Section-F (	3 x 5 = 15 M	arks)		Marks			
36	Mr Biswa, a hospital admir PATIENT.DAT. Each reco Patient_ID, Name, Age, ar	nistrator, want rd includes:							
	Write Python functions to: AddPatient() – to input patient details and append them to the binary file PATIENT.DAT. SearchPatient() – to display details of the patient whose Disease is "Fever"								
37	· · · · · · · · · · · · · · · · · · ·								
	AN	IKITA INDUS	TRIES						
	E	BHUBANESV	VAR CAMPU	S					
	JAGANNATH BLO	OCK	BALABHAI	DRA BLOCK					
	SUBHADRA BLO	CK	SUDARSH	IAN BLOCK					
	BLOCK TO BLOCK DISTANCES (IN METERS)  FROM TO DISTANCE								
	FROM JAGANNATH BLOCK		RA BLOCK	DISTANCE 34					
	JAGANNATH BLOCK	GANNATH BLOCK SUDARSHAN BLOCK 105							
	JAGANNATH BLOCK								
	BALABHADRA BLOCK	SUBHADRA	A BLOCK	67					
	BALABHADRA BLOCK	ABHADRA BLOCK SUDARSHAN BLOCK 56							
	SUDARSHAN BLOCK	SUBHADRA	A BLOCK	110					
	Number of Computers in e JAGANNATH BLOCK BALABHADRA BLOCK SUBHADRA BLOCK SUDARSHAN BLOCK	ach block is a 26 150 17 27	as follows:						
	(i) Suggest a cable layout (ii) Suggest the most suital organization with a suitable (iii) Suggest the placement a. Hub / Switch b. Repeater (iv) The organization is plar of internet will be connecte (v) (a) Suggest a device/s security.  OR (b) What type of network	ble place (i.e. e reason. t of the followinning to link its ed without con oftware to be	block) to houring devices was sale countern promising goinstalled in the sale block.	vith appropriate  r situated <b>LEH</b> . Vood speed. The Campus to	reasons: Which technology take care of data				
	computers connected in at								
		ALL '	THE BEST						

# KENDRIYA VIDYALAYA SANGATHAN BHUBANESWAR REGION PRE-BOARD EXAMINATION 2025-26 CLASS XII

## **SUBJECT - INFORMATICS PRACTICES (065)**

TIME: 3 HOURS M.M.70

#### **General Instructions:**

- Please check this question paper contains 37 questions.
- All questions are compulsory.
- The paper is divided into 5 Sections- A, B, C, D and E.
- Section A consists of 21 questions (1 to 21). Each question carries 1 Mark.
- Section B consists of 7 questions (22 to 28). Each question carries 2 Marks.
- Section C consists of 4 questions (29 to 32). Each question carries 3 Marks.
- Section D consists of 2 case study type questions (33 to 34). Each question carries 4
  Marks.
- Section E consists of 3 questions (35 to 37). Each question carries 5 Marks.
- All programming questions are to be answered using Python Language only.
- In case of MCQ, text of the correct answer should also be written.

#### **SECTION A (21x1=21 Marks)**

Section A consists of 21 questions (1 to 21).

Each question carries 1 Mark.

	Lacif question carries i mark.	
QUES	TION	MARKS
1	State Whether the following statement is True or False:	1
	The rename() always makes changes in the default dataframe.	
2	What will be the result of the following SQL Query?	1
	SELECT ROUND(3.12564,2);	
	A. 3.13	
	B. 3.12	
	C. 3.00	
	D. 4.00	
3	Ramesh was unable to understand how the recruiters were able to know abou	t 1
	his digital activity when he had not shared anything with them. The recruiters	5
	might have checked.	
	A. Carbon Footprint	
	B. Water Footprint	
	C. Online print of Rama.	
	D. Digital Footprint	
4	Which of the following Python statement is used to read data from a CSV file	9 1
	to a DataFrame	
	A. pandas.csvread()	
	B. pandas.read_csv()	
	C. pandas.csv_read()	
	D. pandas.readcsv()	
5	The device used to connect two networks using different protocols is:	1
	A. Router	
	B. Repeater	
	C. Gateway	
	D. Hub	
6	What is the position of "SQL" in following Query:	1
	SELECT INSTR('Learn SQL Programming', 'SQL');	
	A. 9	
	B. 8	
	C. 7	
	D. 6	

7	After practical, Soumya left the computer laboratory but forgot to sign off from her email account. Later, her classmate Ravindra started using the same computer. He is now logged in as Soumya. He sends inflammatory email messages to few of his classmates using Soumya's email account. Ravindra's activity is an example of which of the following cyber crime?  A. Hacking  B. Identity theft	1
	C. Cyber bullying D. Plagiarism	
8	Which of the following best describes the index in a Pandas Series?	1
	A. A row number in a table	
	B. A name given to the Series     C. A data label associated with each value in the Series	
	D. The length of the Series	
9	A relation contains 4 rows and 3 columns. What is the degree and cardinality	1
	of the relation?	
	A. Both are 4	
	B. Both are 3	
	C. 4 and 3 Respectively	
10	D. 3 and 4 Respectively	
10	Which protocol allow us to have voice calls over the internet?	1
	A. HTTP B. VoIP	
	C. Video Chat	
	D. SMTP	
11	What is the difference between COUNT (DISTINCT column) and	1
	COUNT(column)?	
	A. COUNT (DISTINCT column) counts only unique values, while	
	COUNT(column) counts all non-NULL values	
	B. COUNT (DISTINCT column) counts all values including NULL, while	
	COUNT(column) counts only unique values  C. They are exactly the same	
	D. COUNT (DISTINCT column) always returns a lower count than	
	COUNT(column)	
12	Which of the following command is used to display the last three elements	1
	of a series, 'S' ?	
	A. S.Tail	
	B. S.tail()	
	C. S.tail(3)	
13	D. S.Tail(3) What is the name of the IT Law that India is having in the Indian Legislature?	1
13	A. India's Technology (IT) Act 2000	'
	B. India's Digital information Technology (DIT) Act ,2000	
	C. The Information Technology Act ,2000	
	D. The Technology Act ,2008	
14	What is the correct order of clauses in a SQL query that includes GROUP	1
	BY?	
	A. SELECT, GROUP BY, FROM, WHERE	
	B. SELECT, FROM, WHERE, GROUP BY C. SELECT, FROM, GROUP BY, WHERE	
	D. FROM, SELECT, WHERE, GROUP BY	
15	What will be the output of pd.DataFrame([10, 20, 30])?	1
	A. A DataFrame with one column and three rows	
	<b>B.</b> A DataFrame with three columns and one row	
	C. An error	
	D. A Series	

16	Bluetooth devices such as wireless headsets typically form which type of network?	1
	A. PAN	
	B. LAN	
	C. WAN	
	D. MAN	
17	Which of the following is a correct query with respect to the relation	1
	book(book_name, price).	
	A. UPDATE book SET price AS 50;	
	<b>B.</b> UPDATE TABLE book SET price = 10;	
	<b>C.</b> UPDATE book SET price = 10;	
	D. All are incorrect	
18	Give the output of the following code:	1
	import pandas as pd	
	df = pd.DataFrame({'A': [11, 12], 'B': [23, 24]})	
	print(df.shape)	
	<b>A.</b> (2, 2)	
	<b>B.</b> (2, 1)	
	<b>C.</b> (1, 2)	
	<b>D.</b> (4,)	
19	What will happen if we use ORDER BY with a column that contains NULL	
	values?	
	A. NULL values will be sorted first	
	B. NULL values will be sorted last	
	C. NULL values will cause an error	
	<b>D.</b> NULL values will be excluded from the result	
	and 21 are ASSERTION(A) AND REASONING (R) based questions. Mark the co	orrect
	ce as:	
	) Both A and R are true and R is the correct explanation for A	
	) Both A and R are true and R is not the correct explanation for A	
	) A is True but R is False	
	A is false but R is True	
20	<b>Assertion (A):</b> A list of dictionaries can be passed to form a DataFrame.	1
	Reason (R): Keys of the dictionary are taken as row names by default.	
21	<b>Assertion (A):</b> The BETWEEN operator includes both boundary values.	1
	Reason (R): BETWEEN 10 AND 20 includes 10 and 20 in the result.	
	SECTION B (7x2=14 Marks)	
	Section B consists of 7 questions (22 to 28).	
	Each question carries 2 Marks	
22	A) What are the key features of a Pandas Series?	2
	00	
	OR	
<b></b>	B) Can the data type in a Series be mixed? Explain briefly	
23		2
23 24	B) Can the data type in a Series be mixed? Explain briefly	2 2
-	B) Can the data type in a Series be mixed? Explain briefly What is a web browser? Name any two commonly used browsers.	
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	B) Can the data type in a Series be mixed? Explain briefly What is a web browser? Name any two commonly used browsers.  Write python code to create the Series EMP with following data (using List) E1 Sanya E2 Krish E3 Rishav E4 Deepak	
24	B) Can the data type in a Series be mixed? Explain briefly What is a web browser? Name any two commonly used browsers. Write python code to create the Series EMP with following data (using List) E1 Sanya E2 Krish E3 Rishav E4 Deepak dtype: object	2
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24	B) Can the data type in a Series be mixed? Explain briefly What is a web browser? Name any two commonly used browsers. Write python code to create the Series EMP with following data (using List) E1 Sanya E2 Krish E3 Rishav E4 Deepak dtype: object A) List any two health hazards related to excessive use of Technology.  OR B) What measures can you take to curb online frauds?	2
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24	B) Can the data type in a Series be mixed? Explain briefly What is a web browser? Name any two commonly used browsers. Write python code to create the Series EMP with following data (using List) E1 Sanya E2 Krish E3 Rishav E4 Deepak dtype: object A) List any two health hazards related to excessive use of Technology.  OR B) What measures can you take to curb online frauds?	2

27	Explain how a digital footprint can affect a person's privacy and professional	2				
	reputation. Give one example.					
28	A) Write the output of the following Code:	2				
	import pandas as pd					
	data ={'a':0,'b':1.,'c':2.}					
	s =pd.Series(data,index=['b','c','d','a'])					
	print(s)					
	OR					
	B) Give the output for the following code.					
	import pandas as pd					
	data = [{'a': 1, 'b': 2},{'a': 5, 'b': 10, 'c': 20}]					
	df1 = pd.DataFrame(data, index=['first', 'second'], columns=['a', 'b1'])					
	print(df1)					
	SECTION C (4x3=12)					
	Section C consists of 4 questions (29 to 32).					
	Each question carries 3 Marks.					
29	Smita, recently started using her social media account. Within a few days, she	3				
	becomes friends with many people she knows and some that she does not know.	Ū				
	After some time, she starts getting negative comments on her posts. She also finds					
	that her pictures are being shared online without her permission.					
	Based on the given information, answer the questions given below.					
	i. Identify the type of cybercrime she is a victim of.					
	ii. Under which act, she can lodge a complaint with relevant authorities?					
	iii. Suggest any two precautionary measures which she should take in future					
	while being online to avoid any such situations.					
30	A) Consider the following DataFrame "INFO"	3				
30	A) Consider the following DataFrame INFO	3				
	City Hoovitale					
	City Hospitals					
	0 Delhi 189					
	1 Mumbai 208					
	2 Kolkata 149					
	3 Chennai 157					
	Write python pandas code to create the above dataframe using List of Dictionary					
	OR					
	B) Consider the following Series S1 having					
	COUNTRY GDP					
	INDIA 9					
	CHINA 10					
	JAPAN 8					
	SRILANKA 5					
	PAKISTAN 3					
	NEPAL 7					
	Write python pandas code to create the above Series using ndarray.					
31	i. Write an SQL statement to create a table named STUDENT, with the	2+1				
"	following specifications:	<u>- · · · · · · · · · · · · · · · · · · ·</u>				
	Column Name Data Type Key					
	Admnno Char(6) Primary Key					
	Name Varchar(30)					
	DOB Date					
	Admndate Date					
	Mark Integer(3)					
	ii. Write SQL Query to insert the following data in the Employee Table					
	001221, Ramesh Chouhan, 2011/06/19, 2019/05/25, 435					

32	A. Consider the following Relations:
----	--------------------------------------

Table: LOAN

Loan_Number	Branch_name	Amount				
L-170	Bhubaneshwar	30000				
L-230	Cuttack	40000				
L-650	Puri	55000				
L-150	Bhubaneshwar	28000				
L-450	Cuttack	45000				

Table: BORROWER

Customer_ID	Customer_Name	Loan_number
C001	Sambit	L-170
C002	Rahul	L-650
C003	Smita	L-150
C004	Abhishek	L-450
C005	Barun	L-230

#### Write appropriate SQL queries for the following:

- i. Display Branch Name wise Total amount
- ii. List all branch name in the decreasing order of Amount
- iii. Display Loan number along with Customer ID and customer name OR

#### B. Consider the following Relations:

Table : Book

Book_id	Book_name	Author_name	Publisher	Price	Type	Quantity
C0001	Fast Cook	Lata Kapoor	EPB	355	Cookery	5
F0001	The Tears	William Hopkins	First Publi.	650	Fiction	20
T0001	My First c++	Brain & Brooke	FPB	350	Text	10
T0002	C++ Brain works	Lata Kapoor	TDH	355	Text	15
F0002	Fast Cook	Anna Roberts	First Publ.	750	Fiction	20

#### Write appropriate SQL queries for the following:

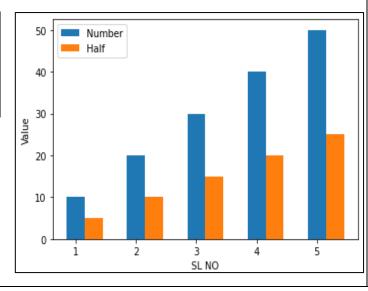
- i. Which Attribute in the table can be considered as Primary Key and Why?
- ii. Write a suitable SQL query to rename the column Type as Book Type
- iii. Write SQL Query to display publisher wise number of book published

#### SECTION D (2x4=8)

Section D consists of 2 case study type questions (33 to 34). Each question carries 4 Marks.

During a practical, a student Rajesh has to fill in the blanks in a Python program that generates a bar chart. This bar chart represents the Number and its half as follows.

SL NO	Number	Half
1	10	5
2	20	10
3	30	15
4	40	20
5	50	25



4

3

#### Help Rajesh to complete the code:

import \_\_\_\_\_ as plt #Statement-1

import numpy as np

x=np.array([1,2,3,4,5])

y=np.array([10,20,30,40,50])

z=np.array([5,10,15,20,25])

plt.bar(x,y,width=0.3, label='Number')

\_\_\_\_\_ #Statement-2

plt.xlabel("SL NO") plt.ylabel("Value")

> #Statement-3 #Statement-4

#### plt.show()

- i. Write suitable code in statement-1 to import the library.
- ii. Refers to the graph above, fill the blank of statement 2 to draw bar graph for Half
- iii. Fill in the blank statement-3 to display lagend in the graph
- iv. Fill in the blank in statement-4 with the appropriate Python code to save the graph as an image file named number png

4

#### 34 A. Write SQL query with reference to the table: SPORTS

GID	NAME	DATEOFGAME	WINNER	PRIZEMONEY		
101	JUDO	2022-10-17	RAGHAV	17000		
102	BADMINTON	2022-05-18	KIRAN	14000		
103	JUDO	2022-08-18	KAMAL	19000		
104	TAEKWONDO	2021-07-20	AHMED	14000		
105	CHESS	2021-05-06	AKHIL	17000		

- i) Display Sports name in lower case.
- ii) Display Winner along with the name of the Month of Date of Game when it held.
- iii) Display Average of Prize Money.
- iv) Display sports name and winner having winner name start with 'K' and prize money more than 15000.

#### OR

## B. Write output of the following SQL queries with reference to the Table: RESULT

SLNO	NAME	STIPEND	SUBJECT	AVERAGE	DIV.
11	KARAN	400	PHYSICS	68.47	1
12	DIWAKAR	450	COMP. Sc.	68.52	1
13	DIVYA	300	CHEMISTRY	40.23	III
14	REKHA	350	PHYSICS	63.75	1
15	ARJUN	500	MATHS	70.47	1
16	SABINA	400	CEHMISTRY	55.25	П
17	JOHN	250	PHYSICS	64.72	I
18	ROBERT	450	MATHS	38.87	III
19	RUBINA	500	COMP. Sc.	62.98	1
20	VIKAS	400	MATHS	57.94	П

- i) Select MIN(AVERAGE) from RESULT where SUBJECT="MATHS";
- ii) Select RIGHT(NAME,3) from RESULT where STIPEND>395;
- iii) Select LOWER(NAME), SUBJECT from RESULT where AVERAGE between 50 and 60:
- iv) Select SUBJECT, ROUND(AVERAGE,1) from RESULT where STIPEND > 430;

#### **SECTION E (3x5=15)**

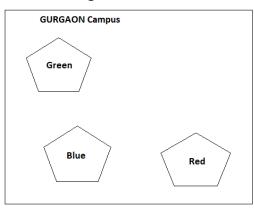
Section E consists of 3 questions (35 to 37).

Each question carries 5 Marks.

XYZ Ltd is setting up a secured network for office campus at Gurgaon for day-to-35 day office and web-based activities. The Company planning to have connectivity between three buildings and the head office situated in Mumbai.

Answer the questions (i) to (v) after going through the building positions in the campus and other details, which are given below:

MUMBAI



Distance between vari	Distance between various building					
<u> </u>						
Building GREEN to	110 Mts					
Building RED						
Building GREEN to	45 Mts					
Building BLUE						
Building BLUE to	65 Mts					
Building RED						
Gurgaon Campus to	1760 KM					
Head Office						

Number of Computers:		
GREEN Building	32	
BLUE Building	45	
RED Building	150	
Head Office	10	

5

#### As a network expert, provide the best possible answer for the followings:

- Suggest a cable layout of connections between the buildings at Gurgaon.
- Suggest the most suitable place (i.e. buildings) to house the server of ii. this organization and why?
- Suggest the placement of the following device with justification: iii.
  - a. Repeater

- b. Hub/Switch
- Suggest a system (hardware/software) to prevent unauthorized access İ۷. to or from the network.
- What type of Network out of LAN, MAN, WAN formed to connect Mumbai ٧.

		Head	Office an	Gurgaon ?		
36	Consider	the fol	lowing D	taFrame DF.		5
		Eng	Maths	Science		
	Priya	80	88	73		
	Ramya	70	98	81		
	Kavita	75	77	66		
	Kanishka	86	96	94		
	Harshini	90	95	92		
	Write Pyt	hon sta	atement f	or the following t	task:	
	i.	Add a	new colu	nn Total by addin	ng Eng, Maths and Science mark	
	ii.	Print t	he First 3	rows of the DataF	Frame.	
	iii.	Renar	ne the co	ımn Eng to "Ëngl	lish"	
	iv.	Delete	the colu	nn Maths from the	e DataFrame	

Display details who secured more than 90 mark in Math

37	A. Write Suitable SQL query for the following:	5				
	i. To display the minimum score from the SCORE column (attribute) in the STUDENT table					
	ii. To display the position of sub string 'AR' in the LASTNAME column					
	(attribute) in the EMPLOYEE table.					
	· · · · · · · · · · · · · · · · · · ·					
	iii. To display the data from the column (attribute) LOCATION in the					
	ADDRESS table, after eliminating any leading and trailing spaces.					
	iv. To display the Cardinality of SALARY table.					
	v. To display Month of the date of birth from the DOB column in the					
	CUSTOMER table					
	OR					
	B. Write Suitable SQL query for the following:					
	i. To Display first 5 characters from the string 'KVS Regional Office					
	Bhubaneshwar'					
	ii. To display position of first occurrence of 'or' in the string 'Corporate'					
	iii. Calculate and display remainder when 265 is divided by 32.					
	iv. To display Maximum and Minimun Salary from the SALARY column in					
	the STAFF Table.					
	v. Display Year from the date '2025-05-29'					

\*\*\*\*\*\*\*\*\*

# KENDRIYA VIDYALAYA SANGATHAN, BHUBANESWAR REGION PRE -BOARD EXAMINATION (2025-26)

CLASS: XII

**SUBJECT: ACCOUNTANCY (055)** 

Set-1

Maximum Marks 80 Maximum Time: 3 Hours

#### GENERAL INSTRUCTIONS:

- 1. This question paper contains 34 questions. All questions are compulsory.
- 2. Paper is divided into two parts, Part A and B.
- 3. Question 1 to 16 and 27 to 30 carries 1 mark each.
- 4. Question 17 to 20, 31 and 32 carries 3 marks each.
- 5. Question 21,22 and 33 carries 4 marks each.
- 6. Questions from 23 to 26 and 34 carries 6 marks each.

	6. Questions from 23 to 26 and 34 carries 6 marks each.  Part – A		
	Accounting for Partnership Firms and Companies		
Q No	QUESTIONS		M
1	According to Profit and Loss Account, the net profit for the year is ₹.15,000. Partners' capital of A & B are ₹1,80,000 and ₹1,20,000 respectively. interest on partner 's capital is 10% p.a. The interest payable to partners as per Profit and Loss Appropriation Account will be:		1
	a). A-9,000, B-6,000 b). A-18,000, B-12,000 c). A-7,500, B-7,500 d). None of the above		
2	Arun and Vijay are partners in a firm sharing profits and losses in the ratio of 5  Balance Sheet (an Extract)	:1.	1
	Liabilities (₹) Assets (₹)   Machinery 40,000		
	If machinery in balance sheet is overvalued by 1/3 <sup>rd,</sup> find out the value of mach be shown in the new balance sheet?  a) ₹.44,000 b) ₹.48,000 c) ₹. 32,000 d) ₹.30,000	inery to	
3	Calculate value of goodwill at 3 year's purchase of super profit, when capital en is ₹.2,50,000, average profit ₹ 30,000 and normal rate of return is 10%?  a) ₹ 3,000 b) ₹ 25,000 c) ₹ 30,000 d) ₹ 15,000	mployed	1
4	A and S were partners with capitals of ₹.3,00,000 and ₹.2,00,000 respectively admitted as a new partner for 1/4 <sup>th</sup> share of profits. B brought ₹.1,20,000 for of goodwill and ₹.2,40,000 for capital. The amount of goodwill premium cred will be:  a) ₹ 40,000 b) ₹ 30,000 c) ₹ 72,000 d) ₹ 60,000	is share	1
5	Anuradha Ltd. issued 2,00,000, 7% debentures of ₹100 each at a discount redeemable at a premium of 5%. On issue of debentures, 'Loss on Issue of Deb Account' will be:		1
	(a) Credited by ₹10,00,000 (b) Debited by ₹10,00,000 (c) Debited by ₹20,00,000 (d) Credited by ₹20,00,000		

6	X, Y and Z are partners sharing profits in 3:2:1. Z was guaranteed a minimum profit of ₹.60,000. Any deficiency arising out of this will be borne by X and Y in the ratio of 2:1. Profit for the year ended 31.03.2025 amounted to ₹.2,70,000. How much deficiency will be borne by X?						
	a) ₹.10,000 b) ₹.15,000 c) ₹.5,000 d) ₹.20,000						
7	Angle and Circle were partners in a firm. Their Balance Sheet showed: Furniture ₹.2,00,000; Stock ₹.1,40,000; Debtors ₹.1,62,000; Creditors ₹.60,000. Square was admitted and new profit-sharing ratio was agreed at 2:3:5. Stock was revalued at ₹.1,00,000; Creditors of ₹.15,000 are not likely to be claimed; Debtors of ₹.2,000 have become irrecoverable and Provision for doubtful debts to be provided @10%. Angle's share in loss on revaluation amounted to ₹30,000. Revalued value of Furniture will be:	1					
	(a) ₹.2,17,000 (b) ₹.1,03,000 (c) ₹.3,03,000 (d) ₹.1,83,000						
	(OR)						
	In case of admission of a partner, match the following:						
	(i) Increase in value of Building (ii) Existing Goodwill (iii) Accumulated profits (iv) Decrease in value of Furniture  (A) debited to Revaluation A/c (B) credited to Revaluation A/c (C) credited to Old Partners' Capital A/cs (D) debited to Old Partners' Capital A/cs						
	Choose the correct option:						
	(a) (i)-(B), (ii)-(C), (iii)-(D), (iv)-(A) (b) (i)-(B), (ii)-(D), (iii)-(C), (iv)-(A) (c) (i)-(B), (ii)-(A), (iii)-(C), (iv)-(D) (d) (i)-(A), (ii)-(B), (iii)-(D), (iv)-(C)						
8	X and Y share profits in the ratio of 3:2. Z was admitted as a partner who gets 1/5 share. Z acquires 3/20 from X and 1/20 from Y. The new profit sharing ratio will be :	1					
	(a) 9:7:4 (b) 8:8:4 (c) 6:10:4 (d) 10:6:4						
9	A, B and C are partners, their deed provides for interest on drawings @ 8% p.a. B withdrew a fixed amount in the middle of every month and his interest on drawing amounted to ₹4,800 at the end of the year. What was the amount of his monthly drawings?	1					
	a) ₹ 10,000 b) ₹ 5,000 c) ₹ 1,20,000 d) ₹ 48,000						
10	Sujata Ltd. issued 5,000, 7% Debentures of ₹100 each at a premium of 10%. According to the terms of issue, 40% of the amount was payable on application and the balance on allotment. The issue was fully subscribed and all amounts were duly received. The amounts received on application and allotment respectively were:	1					
	(a) ₹2,50,000 and ₹3,00,000 (c) ₹2,00,000 and ₹3,50,000 (d) ₹2,00,000 and ₹2,50,000						
11	is a unique type of debt that does not make periodic interest payments to its holders	1					
	(a) Equity Share (b) Debenture (c) Bond (d) Preference share						

12	Saurabh, Shirin and Somesh are partners in a firm sharing profits and losses in the ratio of 3:2:1. Somesh retires and the new profit sharing ratio between Saurabh and Shirin is 3:2. The gaining ratio between Saurabh and Shirin will be:	1
	(a) 3:2 (b) 3:1 (c) 1:1 (d) 2:1	
	OR	
	Khushi, Namita and Manvi were partners in a firm sharing profits and losses in the ratio of 5:2:3. On 30th June, 2022, Khushi died. The partnership deed provided that on the death of a partner, her share of profit till the date of death was to be calculated on the basis of average profit of last three years less ₹10,000. Profits for the last three years were:	
	Year ended 31st March, 2020: ₹1,20,000 Year ended 31st March, 2021: (₹50,000) Year ended 31st March, 2022: ₹1,70,000 Khushi's share of profit till the date of her death was:	
	(a) ₹35,000 (b) ₹9,583 (c) ₹28,750 (d) ₹8,750	
13	Realisation expenses of ₹.15,000 were paid by firm on behalf of Vikas, a partner. Which of the following journal entry will be passed?	1
	(a) Realisation A/c Dr. ₹15,000 To Cash/Bank A/c ₹15,000 (b) Realisation A/c Dr. ₹15,000 To Vikas's Capital A/c ₹15,000 (c) Vikas's Capital A/c Dr. ₹15,000 To Cash/Bank A/c ₹15,000 (d) None of these	
14	A company forfeited 6,000 shares of ₹10 each, on which only application money of ₹3 has been paid. 4,000 of these shares were re-issued at ₹12 per share as fully paid up. Amount of capital reserve will be:	1
	(A) ₹18,000 (B) ₹12,000 (C) ₹30,000 (D) ₹24,000	
15	On dissolution of a partnership firm, furniture appearing in the Balance Sheet was ₹2,00,000. 50% of the furniture was taken over by a partner at ₹65,000 and balance 50% was sold at 20% less than the book value. The amount debited to bank account was:  (a) ₹1,45,000 (b) ₹80,000 (c) ₹65,000 (d) ₹1,85,000	1
16	Premier Auto Ltd. purchased assets of the value of ₹.3,60,000 from Anand Ltd. and	1
	made the payment of purchase consideration by issuing 11% Debentures of ₹.100 each at a discount of 10%. The number of debentures issued by Premier Auto Ltd. were:	
	(a) 3,600 (b) 36,000 (c) 40,000 (d) 4,000	
17	L, M and N are partners sharing profits and losses in the ratio of 4:3:2. They decide to share future profits and losses in the ratio of 2:3:4 with effect from 1st April, 2017. An extract of their Balance Sheet as at 31st March, 2017 is:	3
	Liabilities ₹. Assets ₹.	
	Investments Fluctuation Reserve 9,000 Investments (At cost) 1,00,000 Show the accounting treatment under the following alternative cases:	
	<ul> <li>(i) If the market value of investments is ₹.95,500.</li> <li>(ii) If the market value of investments is ₹.1,09,000.</li> <li>(iii) If the market value of investments is ₹.73,000.</li> </ul>	

18	Youth Ltd. took a loan of ₹.15,00,000 from State Bank of India against the security of tangible assets. In addition to principal security, it issued 10,000, 11% debentures of ₹.100 each as collateral security. Pass necessary journal entries for the above transactions, if the company decided to record the issue of 11% debentures as collateral security and show the presentation in the Balance Sheet of Youth Ltd?						
19	Rohit and Mohit were partners in a firm sharing profits and losses in the ratio of 3:2. Rahul was admitted into partnership for 1/3 share in profits. Goodwill of the firm was valued at ₹.30,000. Rahul brought ₹.40,000 as capital and ₹.5,000 out of his share of goodwill premium in cash. At the time of Rahul's admission, goodwill was appearing in the books of the firm at ₹.15,000.						
	Pass necessary journal entrie Rahul's admission?		ve transactions in the books of	the firm on			
			) iness with Ryan, Williams a of electrical items and equipme				
	Their capital contributions were ₹.50,00,000, ₹.50,00,000 and ₹.80,00,000 respectively with the profit-sharing ratio of 5:5:8. As they are now looking forward to expand their business, it was decided that they would bring in sufficient cash to double their respective capitals. This was duly followed by Ryan and Williams but due to unavoidable reasons, Sania could not do so and ultimately it was agreed that to bridge the shortfall in the required capital, a new partner should be admitted who would bring in the amount that Sania could not bring and that the new partner would get a share of profits equal to half of Sania's share which would be sacrificed by Sania only. Consequent to this agreement, Ejaz was admitted and he brought in the required capital and ₹.30,00,000 as premium for goodwill.						
	Questions:						
	(i) What will be the new profit-	sharing ratio	of Ryan, Williams, Sania and l	Ejaz?			
	(a) 1:1:1:1 (c) 5:5:4:4	(b) 5:5:8:8 (d) None of th	ne above				
	(ii) What is the amount of cap (a) ₹.50,00,000 (c) ₹.40,00,000	ital brought in (b) ₹.80,00 (d) ₹.30,00	0,000				
	(iii) What is the value of the goodwill of the firm?  (a) ₹.1,35,00,000  (b) ₹.30,00,000  (c) ₹.1,50,00,000  (d) Cannot be determined from the given data						
20	Elina, Ferry and Gauri were partners in a firm sharing profits in the ratio of 2:2:1. On 30th September, 2021, their firm was dissolved. On the date of dissolution, the Balance Sheet of the firm was as follows:						
	Balan	ce Sheet as a	at 31st March, 2021				
	Liabilities	₹	Assets	₹			
	Capital Accounts	4.00.000	Gauri's Capital Account	500			
	Elina	1,30,000 1,00,000	Profit and Loss Account	10,000			
	Ferry Creditors	45,000	Land and Building Furniture	50,000			
	Outstanding Expenses	17,000	Machinery	90,000			
			Debtor	36,500			
			Bank	5,000			

2,92,000

2,92,000

The firm was dissolved on the following terms: Ferry was appointed to undertake the process of dissolution for which he was allowed a remuneration of ₹.5,000. Ferry agreed to bear the dissolution expenses. The land and building was sold through a property dealer at a price of 110% of the book value. A commission of 1% on the selling price of land and building was paid to the property dealer. Creditors were payable on an average of 3 months from the date of dissolution. On discharging the creditors on the date of dissolution, they were allowed a discount of 5%. On the basis of the above information, you are to suggest the answers of the following questions: (i) What will be the amount realised from the land and building? (ii) What amount will be payable to the creditors? (iii) What will be the treatment of the dissolution expenses? 21 Rohit, Raman and Raina are partners in a firm. Their capital accounts on 1st April, 2019, stood at ₹.2,00,000, ₹.1,20,000 and ₹.1,60,000 respectively. Each partner withdrew ₹.15,000 during the financial year 2019-20. As per the provisions of their partnership deed: (a) Interest on capital was to be allowed @ 5% per annum. (b) Interest on drawings was to be charged @ 4% per annum. (c) Profits and losses were to be shared in the ratio 5:4:1. The net profit of ₹.72,000 for the year ended 31st March, 2020, was divided equally amongst the partners without providing for the terms of the deed. You are required to pass a single adjustment entry to rectify the error (Show your workings clearly). 22 Atishyokti Ltd. was registered with an authorised capital of ₹.20,00,000 divided into 2,00,000 Equity Shares of ₹10 each, payable ₹.3 on application, ₹.6 on allotment (including ₹.1 premium) and balance on call. The company offered 80,000 shares for public subscription. All the money has been duly called and received except allotment and call money on 5,000 shares held by Manish and call money on 4,000 shares held by Alok. Manish's shares were forfeited and out of these 3,000 shares were re-issued at ₹.9 per share as fully paid up. Show share capital in the books of the company. Also prepare notes to accounts. 23 Prakash, Aakash and Vikash were partners sharing profits in 2:2:1. Their Balance Sheet was as follows: Balance sheet As on 31st March, 2022 Liabilities (₹) Assets (₹) 2,00,000 Bank 40.000 Creditors Stock General Reserve. 1,00,000 60,000 Capitals: Prakash 1.20.000 Debtors 1.60.000 2,00,000 1,40,000 Aakash Investment Vikash 80,000 **Furniture** 70,000 Building 2,30,000 7,00,000 7,00,000

Vikas died on 30th September, 2022. On the death of a partner, the partnership deed provided for the following:

- a) Deceased partner will be entitled to his share of profit up to the date of death calculated on the basis of previous year's profit.
- b) His share in the Goodwill of the firm, calculated on the basis of 3 years' purchase of average profits of last four years.

Profits for the last four years ended 31st March were as follows:

2018–19: ₹.1,60,000 2019–20: ₹.1,00,000 2020–21: ₹.80,000 2021–22: ₹.60,000

- c) Drawings of the deceased partner up to the date of death were ₹.20,000
- d) Interest on capital was allowed@12% per annum.

Prepare Vikas' Capital account to be rendered to his executors.

24 'KLN Ltd.' invited applications for issuing 1,00,000 shares of ₹10 each at a premium of ₹2 per share. The amount was payable as follows:

On Application — ₹.3 per share (including a premium ₹.1)

On Allotment — ₹.4 per share (including a premium ₹.1)

On the First Call — ₹.3 per share

On the Second and Final Call — Balance amount

Applications for 1,90,000 shares were received. The allotment was made on pro rata basis to 1,50,000 applicants and balance are rejected.

Rajat, a shareholder who had applied for 2,400 shares, failed to pay the amount due on the allotment and first call. His shares were immediately forfeited. Out of the forfeited shares1,200 shares were reissued @ ₹.8 per share as fully paid up.

Pass the necessary journal entries for the above transactions in the books of 'KLN Ltd'.

Dhwani and Iknoor were partners sharing Profits & Losses in the ratio 3:2. Their Balance Sheet on March 31, 2025 was as follows

Liabilities	Amount	Assets		Amount
	(₹)			(₹)
Dhwani's Capital	2,40,000	Cash in Hand		50,000
Iknoor's Capital	2,60,000	Building		3,00,000
Investment Fluctuation	50,000	Debtors	80,000	72,000
Reserve		(-) Prov for		
		Doubtful Debts	(8,000)	
Employee Provident Fund	50,000	Stock		88,000
General Reserve	60,000	Accrued Income		20,000
Creditors	40,000	Investment		1,20,000
Bills Payable	30,000	Profit and Loss		1,00,000
Bank Overdraft	20,000			
	7,50,000			7,50,000

On the above date, they admitted Ishaan into partnership for 25% share. Ishaan brings ₹.2,50,000 as capital and ₹.40,000 for goodwill. Goodwill of the firm was valued at ₹.2,00,000. The followings were agreed upon: -

- a) Bad Debts amounted to ₹.5,000 and Provision for doubtful debts to be created at same existing rate.
- b) Investments were valued at ₹.1,00,000.
- c) Accrued Income was recovered only of ₹.14,500 in settlement.
- d) Building was overvalued by 20%.
- e) Capital of Dhwani and Iknoor were to be adjusted on the basis Ishaya's capital contribution.

Necessary adjustment to be done by opening Current Accounts. You are required to prepare Revaluation Account and Partner's Capital Account at the time of admission of partner. (Or)

Aman, Barman and Raman were partners sharing Profits & Losses in the ratio 5:3:2. Their Balance Sheet on March 31, 2025 was as follows

Liabilities	Amount	Assets	Amount
	(₹)		(₹)
Aman's Capital	80,000	Bank	30,000
Barman's Capital	70,000	Building	1,00,000
Raman's Capital	50,000	Furniture	60,000
Workmen Compensation	50,000	Debtors	50,000
Reserve			
Accumulated Depreciation on	20,000	Stock	40.000
Building			
Profit and Loss	40,000	Prepaid Expenses	20.000
Creditors	25,000	Deferred Revenue Exp.	20.000
Outstanding Expenses	15,000	Goodwill	30.000
	3,50,000		3,50,000

On the above date Barman retired and his share was acquired by Aman and Raman equally. The followings were agreed upon:-

- a) Create Provision for doubtful debts @ 10%.
- b) Market value of Building is ₹.1,00,000 and Furniture was overvalued by 20%.
- c) Stock was valued at ₹.55,000. Creditors of ₹.15,000 took over stock of ₹.10,000 in settlement of their claims.
- d) Goodwill of the firm was valued at ₹.80,000.
- e) Prepaid Expenses are worthless and Outstanding Expenses are now ₹.20,000.
- f) ₹.20,000 was immediately paid to Barman on retirement brought in by Aman and Raman in the of ratio 3:2.

Prepare Revaluation Account and Partner's Capital Account at the time of retirement of partner.

26 From the following information, complete Journal entries:

6

Date	Particulars	LF	Dr.(₹)	Cr.(₹)
	Share Capital A/c Dr.			
	Securities Premium A/c Dr.		1,000	
	To Share Forfeiture A/c			?
	To Calls in Arrears A/c			3,500
	(Being? shares forfeited for non-payment			
	of? including premium of ₹2 per share)			
	Bank A/c Dr.		?	
	Share Forfeiture A/c Dr.		?	
	To Share Capital A/c			?
	(Being ? shares reissued at ₹9 per share as			
	fully paid)			
	Share Forfeiture A/c Dr.			
	To Capital Reserve Alc		600	
	(Being forfeiture money transferred to capital			600
	reserve)			

Share Forfeiture Account

Date	Particulars	(₹)	Date	Particulars	(₹)
	To Share capital A/c	?		By Share capital A/c	1,500
	To Capital Reserve A/c	600			
	To Balance c/d	600			
		1,500			1,500

(Face value of share is 10 each)

(Or)

	<ul> <li>a. Raman Ltd forfeited 600 shares of Rs.10 each issued at a premium of Rs.2 per share (Rs.8 called up) on which application money of Rs.3 and allotment money Rs.7 (including premium) is received. Out of these, 400 shares are re-issued @ Rs.8 per share fully paid up. Pass journal entries.</li> <li>b. Silver limited Purchased a running business of Alpha limited for Rs.22,00,000. The company issued equity shares of Rs.10 each at a premium of 10% The business comprises Building Rs.19,00,000, Machinery Rs.4,00,000, Debtor Rs.1,00,000, Furniture Rs.1,50,000, Creditor Rs.2,00,000 and Bills payable Rs.1,00,000. Pass</li> </ul>				
	journal entries.				
	Et.	Part – B	1-		
27	Financial Statement Analysis  Calculate the amount of change in inventories of finished goods, work-in-progress stock-in-trade, that will be shown in the Notes to Accounts from the followinformation:				
	<u> </u>	Opening Inventories (₹)	Closing Inventories (₹)		
	Finished Goods	2,50,000	2,75,000		
	Work-in-progress (WIP)	2,25,000	2,12,500		
	Stock-in-Trade	3,25,000	3,00,000		
	a) ₹ 12,450 b) ₹ 12	2,500 c) ₹15,200	d) ₹ 12,540		
28	The current assets of X Ltd. are its working capital turnover ratio (a) ₹2,00,000 (c) ₹2,50,000  If revenue from operations is revenue from operations will be (a) ₹2,50,000 (c) ₹2,00,000	o is 6 times, its revenue fro (b) ₹3,00,00 (d) ₹1,50,00 (OR) ₹10,00,000 and gross pro	om operations will be: 0 0 ofit is 25% on cost, cost of	1	
	Which of the following transactions will result into flow of cash?  (a) Deposited ₹.40,000 into bank.  (b) Withdrew cash from bank ₹.54,000.  (c) Sold marketable securities of ₹.25,000 at par.  (d) Sold machinery of book value of ₹.50,000 at a gain of ₹.10,000				
29	<ul><li>(a) Deposited ₹.40,000 into</li><li>(b) Withdrew cash from ban</li><li>(c) Sold marketable securities</li></ul>	bank. k ₹.54,000. es of ₹.25,000 at par.		1	
	<ul> <li>(a) Deposited ₹.40,000 into</li> <li>(b) Withdrew cash from ban</li> <li>(c) Sold marketable securities</li> <li>(d) Sold machinery of book</li> </ul>	bank. k ₹.54,000. es of ₹.25,000 at par.		1	
	(a) Deposited ₹.40,000 into (b) Withdrew cash from ban (c) Sold marketable securitie (d) Sold machinery of book  Bala  Equity and Liabilities	bank. k ₹.54,000. es of ₹.25,000 at par. value of ₹.50,000 at a gair nce Sheet (an Extract)			
	(a) Deposited ₹.40,000 into (b) Withdrew cash from ban (c) Sold marketable securitie (d) Sold machinery of book  Bala  Equity and Liabilities  12% Debentures	bank. k ₹.54,000. es of ₹.25,000 at par. value of ₹.50,000 at a gair nce Sheet (an Extract)	n of ₹.10,000		
	(a) Deposited ₹.40,000 into (b) Withdrew cash from ban (c) Sold marketable securitie (d) Sold machinery of book  Bala  Equity and Liabilities 12% Debentures  Additional Information: Interest on debentures is paid of each year. Debentures were re-	bank. k ₹.54,000. es of ₹.25,000 at par. value of ₹.50,000 at a gair nce Sheet (an Extract)  31st March 2019 2,00,000  on half yearly basis on 30t deemed on 30th Septemb	an of ₹.10,000 31 <sup>st</sup> March 2019 1,60,000 h September and 31st March er, 2019.	1	
	(a) Deposited ₹.40,000 into (b) Withdrew cash from ban (c) Sold marketable securitie (d) Sold machinery of book  Bala  Equity and Liabilities 12% Debentures  Additional Information: Interest on debentures is paid of each year. Debentures were reference to a	bank. k ₹.54,000. es of ₹.25,000 at par. value of ₹.50,000 at a gair  nce Sheet (an Extract)  31 <sup>st</sup> March 2019  2,00,000  on half yearly basis on 30t deemed on 30th Septembabove information) will be septembabove.	an of ₹.10,000  31 <sup>st</sup> March 2019 1,60,000  h September and 31st March er, 2019. Shown in Financing Activity	1	
	(a) Deposited ₹.40,000 into (b) Withdrew cash from ban (c) Sold marketable securitie (d) Sold machinery of book  Bala  Equity and Liabilities 12% Debentures  Additional Information: Interest on debentures is paid of each year. Debentures were re-	bank. k ₹.54,000. es of ₹.25,000 at par. value of ₹.50,000 at a gair nce Sheet (an Extract)  31st March 2019 2,00,000  on half yearly basis on 30t deemed on 30th Septembabove information) will be sared on 31st March, 2020?  (b) Inflow ₹4 (d) Outflow	an of ₹.10,000  31st March 2019 1,60,000  h September and 31st March er, 2019. shown in Financing Activity	1	
	(a) Deposited ₹.40,000 into (b) Withdrew cash from ban (c) Sold marketable securitie (d) Sold machinery of book  Bala  Equity and Liabilities 12% Debentures  Additional Information: Interest on debentures is paid of each year. Debentures were reduced the work of the company	bank. k ₹.54,000. es of ₹.25,000 at par. value of ₹.50,000 at a gair  nce Sheet (an Extract)  3 31st March 2019  2,00,000  on half yearly basis on 30t deemed on 30th Septemblabove information) will be streed on 31st March, 2020?  (b) Inflow ₹4  (d) Outflow	an of ₹.10,000  31 <sup>st</sup> March 2019 1,60,000  h September and 31st March er, 2019. Shown in Financing Activity  \$2,600 ₹64,000	1	
	(a) Deposited ₹.40,000 into (b) Withdrew cash from ban (c) Sold marketable securitie (d) Sold machinery of book  Bala  Equity and Liabilities 12% Debentures  Additional Information: Interest on debentures is paid of each year. Debentures were returned to a for Cash Flow Statement preparation (a) Outflow ₹40,000	bank. k ₹.54,000. es of ₹.25,000 at par. value of ₹.50,000 at a gair  nce Sheet (an Extract)  31st March 2019  2,00,000  on half yearly basis on 30t deemed on 30th September above information) will be stared on 31st March, 2020?  (b) Inflow ₹4 (d) Outflow  (OR)  find out the inflow of Cash	an of ₹.10,000  31 <sup>st</sup> March 2019 1,60,000  h September and 31st March er, 2019. shown in Financing Activity  12,600 ₹64,000 h by sale of Office equipment.	1	
	(a) Deposited ₹.40,000 into (b) Withdrew cash from ban (c) Sold marketable securitie (d) Sold machinery of book  Bala  Equity and Liabilities 12% Debentures  Additional Information: Interest on debentures is paid of each year. Debentures were red How much amount (related to a for Cash Flow Statement preparation) (a) Outflow ₹40,000 (b) Outflow ₹61,600  From the following information,	bank. k ₹.54,000. es of ₹.25,000 at par. value of ₹.50,000 at a gair  nce Sheet (an Extract)  31 <sup>st</sup> March 2019  2,00,000  on half yearly basis on 30t deemed on 30th Septembabove information) will be sared on 31st March, 2020?  (b) Inflow ₹4 (d) Outflow  (OR) find out the inflow of Cash  31 <sup>st</sup> March 2022	an of ₹.10,000  31st March 2019 1,60,000  The September and 31st March er, 2019. Shown in Financing Activity  12,600 ₹64,000  The by sale of Office equipment and 31st March 2021	1	
	(a) Deposited ₹.40,000 into (b) Withdrew cash from ban (c) Sold marketable securitie (d) Sold machinery of book  Bala  Equity and Liabilities 12% Debentures  Additional Information: Interest on debentures is paid of each year. Debentures were red How much amount (related to a for Cash Flow Statement preparties) (a) Outflow ₹40,000 (c) Outflow ₹61,600  From the following information,  Office Equipment	bank. k ₹.54,000. es of ₹.25,000 at par. value of ₹.50,000 at a gair  nce Sheet (an Extract)  31st March 2019  2,00,000  on half yearly basis on 30t deemed on 30th September above information) will be stared on 31st March, 2020?  (b) Inflow ₹4 (d) Outflow  (OR)  find out the inflow of Cash	an of ₹.10,000  31 <sup>st</sup> March 2019 1,60,000  h September and 31st March er, 2019. shown in Financing Activity  12,600 ₹64,000 h by sale of Office equipment.	1	
	(a) Deposited ₹.40,000 into (b) Withdrew cash from ban (c) Sold marketable securitie (d) Sold machinery of book  Bala  Equity and Liabilities 12% Debentures  Additional Information: Interest on debentures is paid of each year. Debentures were reduced to a for Cash Flow Statement preparation (a) Outflow ₹40,000 (c) Outflow ₹61,600  From the following information,  Office Equipment  Additional Information:	bank. k ₹.54,000. es of ₹.25,000 at par. value of ₹.50,000 at a gair  nce Sheet (an Extract)  31 <sup>st</sup> March 2019  2,00,000  on half yearly basis on 30t deemed on 30th Septembla bove information) will be sared on 31st March, 2020?  (b) Inflow ₹2 (d) Outflow  (OR) find out the inflow of Cash  31 <sup>st</sup> March 2022  2,00,000	an of ₹.10,000  31 <sup>st</sup> March 2019 1,60,000  The September and 31st March er, 2019. Shown in Financing Activity  42,600 ₹64,000  The by sale of Office equipment of the sale of 2010 31 <sup>st</sup> March 2021 3,00,000	1	
30	(a) Deposited ₹.40,000 into (b) Withdrew cash from ban (c) Sold marketable securitie (d) Sold machinery of book  Bala  Equity and Liabilities 12% Debentures  Additional Information: Interest on debentures is paid of each year. Debentures were red How much amount (related to a for Cash Flow Statement preparties) (a) Outflow ₹40,000 (c) Outflow ₹61,600  From the following information,  Office Equipment	bank. k ₹.54,000. es of ₹.25,000 at par. value of ₹.50,000 at a gair  nce Sheet (an Extract)  31st March 2019  2,00,000  on half yearly basis on 30t deemed on 30th September above information) will be streed on 31st March, 2020?  (b) Inflow ₹4 (d) Outflow  (OR)  find out the inflow of Cash  31st March 2022  2,00,000	an of ₹.10,000  31 <sup>st</sup> March 2019 1,60,000  The September and 31st March er, 2019. Shown in Financing Activity  42,600 ₹64,000  The by sale of Office equipment of the sale o	1	

- Under what headings and sub-headings of the Balance Sheet of a company, following will be presented:
  - (i) Proposed Dividend
  - (ii) Calls-in-Arrears
  - (iii) Outstanding Salary
  - (iv) Shares in D.C.R. Limited

Complete the following Comparative Balance Sheet as at March 31, 2024 and March 31, 2025:

PARTICULARS	31st March 2024	31st March 2025	Absolute Change	Percentage Change
Shareholders' Funds	6,00,000	??	3,00,000	??
Non-current Liabilities	3,00,000	??	NIL	??
Current Liabilities	??	3,00,000	2,00,000	??
TOTAL	??	??	??	??
Non-current Assets	7,00,000	??	??	50
Current Assets	??	??	??	??
TOTAL	??	??	??	??

(OR)

Prepare Common Size Statement of Profit and Loss for the year ended March 31, 2025:

Particulars	31st March 2025
Revenue from Operations	40,00,000
Other Expenses	4,00,000
Other Income	6,00,000
Employee Benefit Expenses	8,00,000
Purchases of Stock in Trade	10,00,000
Change in Inventory	(2,00,000)

33 . From the following information, compute 'Debt to Equity Ratio'.

Particulars	(₹)
Long-term Borrowings	2,00,000
Long-term Provisions	1,00,000
Current Liabilities	50,000
Non-current Assets	3,60,000
Current Assets	90,000

(OR)

Calculate the information asked in following cases:

- (i) Current Liabilities ₹.1,50,000, Current Assets ₹.2,80,000, Inventories ₹.40,000, Advance Tax ₹.30,000 and Prepaid Rent ₹.10,000. Calculate Quick Ratio?
- (ii) Average Inventory ₹.60,000, Revenue from Operations ₹.6,00,000, the rate of Gross Loss on Sales is 10%. Calculate the Inventory Turnover Ratio?

From the following Balance sheet of Mayur Ltd. And the additional information as at 31st 34 March, 2018, prepare a cash flow statement:

## **Notes to Account**

Particulars	Current Year (₹)	Previous Year (₹)
1.Reserves and Surplus		
Surplus i.e. Balance in statement of profit and loss	3,00,000	4,00,000
2. Long-term Borrowings		
9% Debentures	4,00,000	3,00,000
3. Short-term Provisions		
Provision for Taxation	76,000	64,000
4. Property, Plant and Equipment		
Machinery	36,00,000	28,00,000
Accumulated Depreciation	(7,00,000)	(5,00,000)
	29,00,000	23,00,000
5. Intangible Assets		
Goodwill	2,70,000	1,60,000

## **Balance Sheet of Mayur Ltd.**

as at 31st March 2018

as at 31st Marc	11, 2018		
Particulars	Note No.	31st March, 2018 (₹)	31st March, 2017 (₹)
I. EQUITY AND LIABILITIES			
1. Shareholders' Funds			
(a) Share Capital	1	30,00,000	20,00,000
(b) Reserves and Surplus		3,00,000	4,00,000
2. Non-current Liabilities			
(a) Long-term Borrowings	2	4,00,000	3,00,000
3. Current Liabilities			
(a) Trade Payables		1,70,000	2,50,000
(b) Short-term Provisions	3	76,000	64,000
Total		39,46,000	30,14,000
II. ASSETS			
1. Non-Current Assets			
(a) Property, Plant and Equipment and			
Intangible Assets			
(i) Property, Plant and Equipment	4	29,00,000	23,00,000
(ii) Intangible Assets	5	2,70,000	1,60,000
(b) Non-current Investments			
2. Current Assets			
(a) Inventories		2,20,000	2,30,000
(b) Trade Receivables		1,10,000	1,30,000
(c) Cash and Cash Equivalents		4,46,000	1,94,000
Total		39,46,000	30,14,000

## **Additional Information**

- During the year, a piece of machinery costing ₹.4,00,000 on which accumulated depreciation was ₹.73,000 was sold for ₹.3,10,000. 9% Debentures of ₹.1,00,000 were issued on 31st March, 2018. (i)
- (ii)

## KENDRIYA VIDYALAYA SANGATHAN, BHUBANESWAR REGION PRE-BOARD EXAMINATION, (2025-26) CLASS XII SUBJECT- BUSINESS STUDIES (054)

Max.Marks - 80

Max. Time Allowed- 3 Hours

### **General Instructions:**

Read the following instructions very carefully and strictly follow them:

- (in) This question paper contains 34 questions. All questions are compulsory.
- (ii) Marks are indicated against each question.
- (iii) Answers should be brief and to the point.
- (iv) Answers to questions carrying 3 marks may be from 50 to 75 words.
- (v) Answers to questions carrying 4 marks may be in about 150 words.
- (vi)Answers to questions carrying 6 marks may be in about 200 words.
- (vii) Attempt all parts of a question together.

Q.N		Marks
1	The management of a bag manufacturing company has recently changed. Due to this,	1
	an improvement can be felt in the way company functions. Now, targets are met	
	according to plans, whereas, earlier deadlines were never given importance. Now there	
	is orderliness, instead of chaos in the organisation and the employees are happy and	
	satisfied.	
	From the following identify the characteristic of management which is highlighted in the	
	above case:	
	(a) Management is dynamic	
	(b) Management is a group activity	
	(c) Management is a continuous process	
	(d) Management is an intangible force.	
2	While conducting a survey Rajiv observed that although there was division of work in	1
	every factory he visited, but the extent of division of work varied from factory to factory	
	depending upon the demand of the situation. Which feature of principle of management	
	is highlighted above?	
	(a) Flexible (b) Contingent	
	(c) General guidelines (d) Cause and effect	
3	Gitanjali Makan is a successful business leader. She believes that if jobs are made	1
	interesting by including greater variety of work content and providing a meaningful work	
	experience, the jobs themselves become a source of motivation to individuals.	
	The non-financial incentive that has been discussed in the above case is:	
	(a) Employee Participation (b) Job Enrichment	
	(c) Career Advancement Opportunity (d) Job Security	
4	Read the following statements carefully:	1
	Statement I: The development of the principles of management is considered science	
	and their application, is an art.	
	Statement II: The principles of management cannot be applied in all types of	
	organisations.	
	Choose the correct option from the options given below:	
	(a) Both the statements are true.	
	(b) Both the statements are false	
	(c) Statement I is true and statement II is false	
	(d) Statement I is false and statement II is true	

5	Read the following statements: Assertion (A) and Reason (R). Choose the correct	1
	alternative from those given below: Assertion (A): The directing function takes place at every level of management.	
	<b>Reason (R):</b> Every manager, from top executive to supervisor performs the function of	
	directing.	
	Alternatives :	
	(a) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct	
	explanation of Assertion (A)	
	(b) Both Assertion (A) and Reason (R) are true and Reason (R) is not the correct	
	explanation of Assertion (A)	
	(c) Assertion (A) is true but Reason (R) is false	
	(d) Assertion (A) is false but Reason (R) is true	
6	Cartoony Planet' is a well-known indoor playground for organising parties for children in	1
	Noida. It has many play stations and it organises various activities for the kids to enjoy.	
	Looking at the increasing number of children visiting 'Cartoony Planet', a new indoor	
	playground in the name of 'Tiny-Tots House' came up with advanced swings, play	
	stations and entertainment activities near 'Cartoony Planet'. To compete with the newly	
	opened indoor playground, 'Cartoony Planet' also added some advanced swings and	
	entertainment activities to attract more children.	
	The above information highlights one of the features of business environment. Identify	
	the feature from the following:	
	(a) Uncertainty (b) Dynamic Nature	
	(c) Relativity (d) Interrelatedness	
7	Marbury biscuits' launched its new range of oat cookies in three varieties. They decided	1
	to distribute free samples of their biscuits in schools as a part of their promotional	
	campaign. Identify the tool of promotion used by 'Marbury Biscuits':	
	(a) Advertising (b) Personal Selling	
	(c) Sales Promotion (d) Public Relations	
8	Which of the following statements is incorrect?	1
	(a) Controlling should focus on Key Result Areas which are critical to the success of an	
	organization.	
	(b) Only significant deviations which go beyond the permissible limit should be brought	
	to the notice of the management.	
	(c) Comparison between actual and desired results is easier when standards are set in	
	quantitative terms.	
	(d) No corrective action is required when the deviations are outside the acceptable	
	limits.	
9	Observe the picture and identify the step of staffing highlighted in it	1
	(a) Recruitment	
	(b) Selection	
(c) Estimating Manpower Requirements		
	(d) Placement and Orientation	

10	In an organization, employees always fee	el that they are under enormous unnecessary	1		
	stress, as the manager does not provide	any information about future plans but simply			
	instructs them what to do. He also does no	ot listen to any of the suggestions given by the			
	subordinates. Identify the type of leadersh	nip style followed by the manager in the above			
	situation.				
	(a) Autocratic leadership style				
	(b) Free-rein leadership style				
	(c) Democratic leadership style				
	(d) All of the above				
11		be followed in the trading procedure at Stock	1		
	Exchange.				
	order, Execution of order	nat account, Placing an order, Settlement of			
	l ·	ing account and demat account, Placing an			
	order, Execution of order	ing account and demat account, I lacing an			
	l ·	account, Placing an order, Execution of order,			
	Settlement of order	, and generally services,			
	(d) Placing an order, Opening a trading ac	count and demat account, Execution of order,			
	Settlement of order				
12	Identify the correct sequence of two-level-	channel of distribution:	1		
	(a) Manufacturer $\rightarrow$ Retailer $\rightarrow$ Agent $\rightarrow$ C	Customer			
	(b) Manufacturer → Consumer → Retailer	→ Wholesaler			
	(c) Manufacturer $\rightarrow$ Agent $\rightarrow$ Customer $\rightarrow$				
	(d) Manufacturer → Wholesaler → Retaile				
13		umn I with their respective meaning in Column	1		
	<u>                                     </u>				
	Column I	Column II			
	A. Effectiveness	(i) Doing the task correctively with			
	B. Efficiency	minimum cost			
	C. Process	(ii) Finishing the task on time			
		(iii) The primary function or activities			
		that management performs to get			
	(a) A-(i), B-(ii), C—(iii) (b) A-(ii),	B-(i) C-(iii)			
		B-(iii), C-(iii)			
14		ed Indian company manufacturing organic	1		
	· · · · · · · · · · · · · · · · · · ·	ampoos. It has planned to increase its market	.		
	share from 30% to 40% in the current finar	•			
		ducts, other companies in the consumer goods			
		cts with organic components. The competition			
		found that the sales of Uttam Ayurvedic Ltd.			
	came down and its market share was redu	uced to 23%.			
	Identify the limitation of planning highlighte	ed in the above case.			
	(a) Planning may not work in dynamic envi	ironment			
	(b) Planning is time consuming				
	(c) Planning involves huge costs				
	(d) Planning reduces overlapping and wasteful activities.				
15	Which type of training is provided to the new employees of an organization in order to				
-	familiarize them with the organizational rules and policies, their superior and				
	familiarize them with the organization	al rules and policies, their superior and			
	familiarize them with the organization subordinate, and so on?	al rules and policies, their superior and (b) Apprenticeship training			
	familiarize them with the organization subordinate, and so on?				

16	Which of the following statement is not correct?	1		
	(a) Financial leverage is the proportion of debt in the overall capital			
	(b) Purchase of Machinery is linked to working capital decision			
	(c) EPS will rise with increase in debt only when ROI < Cost of Debt			
	(d) Both (b) and (c)			
17	The process of estimating fund requirements of a business and specifying the sources	1		
	of funds is called:			
	(a) Capital Structure (b) Financial Planning			
	(c) Financial Management (d) Capital Budgeting			
18	Long term investment decision is also known as	1		
	(a) Working Capital	•		
	(b) Financing Decision			
	(c) Capital Budgeting Decision			
	(d) Dividend Decision			
19	Net Working Capital refers to:	1		
	(a) Excess of Current Assets over Current Liabilities			
	(b) Excess of Current Liabilities over Current Assets			
	(c) Excess of Equity over Debt			
	(d) Excess of Debt over Equity			
20	Financial transactions in a financial market could be in the form of:	1		
	(i) creation of financial assets such as the initial issue of shares and debentures by a			
	firm			
	(ii) purchase and sale of existing financial assets like equity shares, debentures and			
	bonds			
	(iii) investment in the fixed assets, like land and building, machinery, etc.			
	(iv) declaration of dividend to shareholders			
	Choose the correct option from the following:			
	(a) (i) and (ii) (b) (ii) and (iii)			
	(c) (iii) and (iv) (d) (i) and (iii)			
21				
	(a) Formation			
	(b) Specialisation			
	(c) Cost involved			
	(OR)			
	Explain any three importance of Delegation.			
22	Shyam brought a pain-relieving ointment after seeing it being displayed in the chemist's	3		
	shop. The ointment tube was packed in a cardboard box.			
	Identify and explain the different levels of packaging of the pain reliving medicine, when			
	it was purchased by Shyam.			
	State another level of packaging which is not highlighted in the above case.			
23	Give any three points of distinction between the primary market and secondary market.	3		
	(OR)			
	Give any three regulatory functions performed by Securities and			
	Exchange Board of India			
24	After completing his MBA degree, Aman joined a multinational company 'Zeyovya Ltd.'.	3		
	His job demands long hours and commitment to the organisation. He is responsible for			
	integrating diverse elements and coordinating all the activities of the business and for its			
	impact on society. His job is complex and stressful.			
	(a) Identify the level of management at which Aman joined the organisation.			
	(b) State any two functions to be performed by Aman at this level other than those			
	discussed in the para.			
	ı ı	I		

25	Differentiate between 'Draduction concept' and 'Marketing concept' of marketing on the	4
25	Differentiate between 'Production concept' and 'Marketing concept' of marketing on the	4
	basis of:	
	(a) Starting point	
	(b) Means	
	(c) Main focus	
	(d) Ends.	
	(OR)	
	RK motors recently informed the media about its aim to train up to 4,000 people in next	
	3 years in the skills associated with the automobiles industry as part of its program to	
	provide technical and vocational education for unemployed youth. The firm has already	
	started the program in collaboration with automobile skill development council. This	
	news in the media has helped the firm in promoting its image in the eyes of the public	
	and consumer activist groups.	
	Identify the element of Promotion mix is highlighted in the above case study and explain	
	its three role of the identified element.	
26		4
	Explain any four importance of planning in management.	
	(OR)	
	Explain the following types of plans:	
	(a) Strategy	
	(b) Procedure	
27	India's craft heritage is surviving because of its customs and traditions. Craft products	4
	made by craftsmen of Rajasthan, Gujarat, Assam, etc. are not only used in the country	7
	but are also exported to USA, Germany, UK, France and other countries of the world.	
	The volume of exports of these products gives India an advantage in balance of	
	payments and the much needed foreign exchange. The Prime Minister desires that the	
	handicraft industry should be expanded by linking it with technology. Focus should be	
	on changing the manufacturing process, ensuring durability and adopting innovations.	
	Quoting the lines from the above paragraph, explain any four dimensions of the	
	business environment	
28	'Planning and controlling are inseparable twins of management'. How?	4
29	'Work is Worship' is a leading construction company. The organisation has grown from	4
	strength to strength because of its innovative ideas and scientific approach of working.	
	Ten years back the organisation went through a revolution. All the operations and	
	activities were properly noticed and the standard time taken to perform them was noted.	
	This took a few months and now the company could find out the amount of workers	
	required and the number of days to be involved in the various manufacturing processes.	
	A year later they moved to another level by considering the stress involved in the lives of	
	the workers. The amount and frequency of rest intervals in finishing a particular task	
	were noted. This helped the company in optimizing the rest intervals for the workers so	
	that their outputs could be increased. After six more months the company decided to	
	reward the efficient workers. A different rate of wage payment was decided for those	
	workers who performed above the standard. The standard was decided. This led to a	
	revolutionary change in the perspective of the workers who now started giving their full	
	efforts in order to increase their wages.	
	Name and explain briefly any two types of Techniques of Scientific Management	
	highlighted above. Also quote the lines where these types have been indicated.	
		i

30	Vandana Public School had a vacancy of a Maths teacher. They were looking for a smart and creative teacher having a drive for excellence. An advertisement was given in all leading dailies. Since the response was huge, the school examined all the application forms and rejected the candidates who did not have the necessary qualifications. Thereafter, a test was conducted to measure the existing skills of the candidates. After	4
	that it was followed by a formal in-depth conversation with the Principal of the school and a panel of Maths experts.  (a) Explain the steps that have been performed by Vandana Public School in the process of identifying and choosing the best candidate.  (b) Give the name and also the meaning of the test which was conducted by the school	
31	Sahaj Ltd. is a company engaged in production of organic foods. Presently, it sells its products through indirect channels of distribution. But, considering the sudden surge in the demand for organic products, the company is now inclined to start its online portal for direct marketing. The financial managers of the company are planning to use debt in order to take advantage of trading on equity. In order to finance its expansion plans, it is planning to, raise a debt capital of Rs. 40 lakhs through a loan @ 10% from an industrial bank. The present capital base of the company comprises of Rs. 9 lakh equity shares of Rs. 10 each. The rate of tax is 30%. In the context of the above case:	6
	<ul><li>(1) What are the two conditions necessary for taking advantage of trading on equity?</li><li>(2) Assuming the expected rate of return on investment to be same as it was for the current year i.e. 15%, do you think the financial managers will be able to meet their goal. Show your workings clearly.</li></ul>	
32	Neeraj, a sales representative of 'Omida Ltd' has changed seven jobs in the last one year. He is a hard working person but is not able to finalize deals with the customer due to his inadequate vocabulary and omission of needed words. Sometimes he uses wrong words because of which intended meaning is not conveyed. All this created a misunderstanding between him and his clients.  a. Identify the communication barrier discussed above.  b. State the category of this communication barrier.  c. Explain any other communication barrier of the same category.  d. Explain two measures to overcome such barriers for effective communication.	6
33	The G20 Summit was organised in India. The government left no stone unturned to make G20 summit a sucess.  At the higher level, the work to be performed was identified and grouped to enable people to work most effectively together for accomplishing objectives. This involved building infrastructure, beautification of the city, hospitality, security arrangements etc. Duties were assigned to different job positions which led to establishment of clear relationships. This helped in creating a hierarchical structure and in co-ordination amongst all working for the summit.  (a) Identify and explain the function of management discussed in the above para.  (b) Explain any four points of importance of the function identified in part (a) above	6
34	Enumerate any five rights of a consumer under the Consumer Protection Act, 2019.  (OR)  Reena purchased one litre of pure Deshi Ghee from a shopkeeper. After using it, she had a doubt that it is adulterated. She sent it for a laboratory test which confirmed that the Ghee is adulterated. State any six reliefs available to Reena, if she complaints and the consumer court is satisfied about the genuineness the complaint.	6

# KENDRIYA VIDYALAYA SANGATHAN, BHUBANESWAR REGION PRE-BOARD EXAMINATION-I

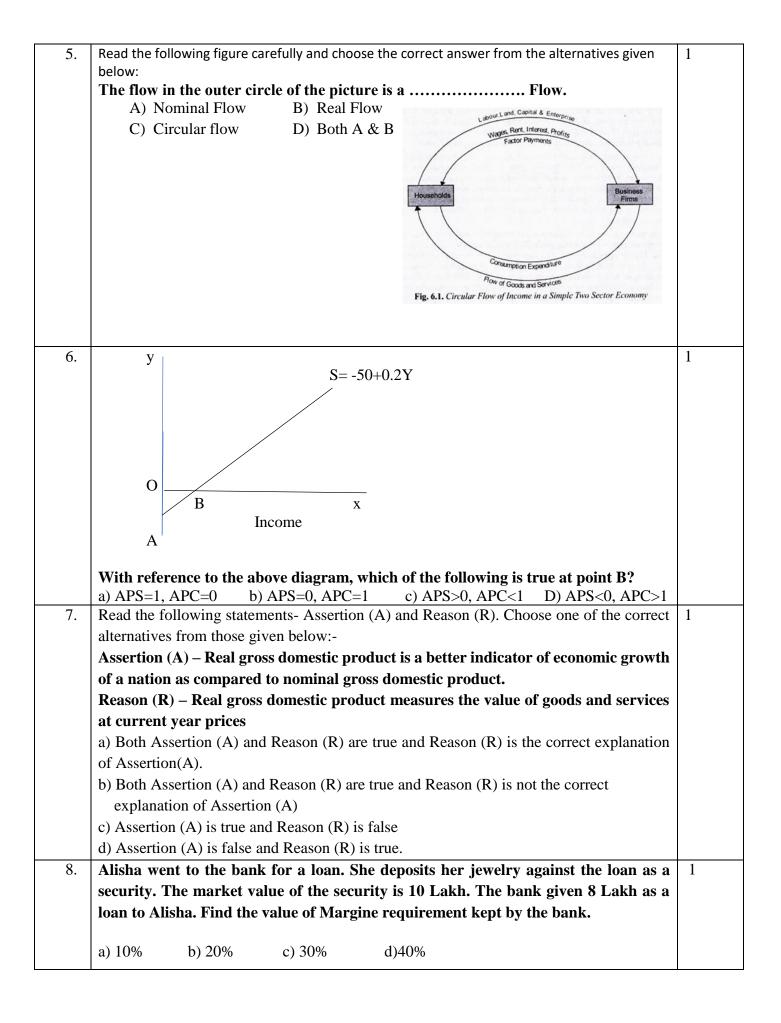
CLASS: - XII (2025-26) SUBJECT: - ECONOMICS (030)

TIME: 3 HOURS M.M. – 80

## **GENERAL INSTRUCTIONS:**

- *I.* This question paper contains two sections:
  - Section A Introductory Macro Economics
  - Section B Indian Economic Development
- II. This paper contains 20 Multiple Choice Type Questions of 1 mark each.
- III. This paper contains 4 Short Answer Type Questions of 3 marks each to be answered in 60to 80 words.
- IV. This paper contains 6 Short Answer Type Questions of 4 marks each to be answered in 80to 100 words.
- V. This paper contains 4 Long Answer Type Questions of 6 marks each to be answered in 100to 150 words.
- VI. The above word limits are not applicable to Numerical Questions.

SL.	SECTION A – INTRODUCTORY MACRO ECONOMICS	Marks	
NO			
1.	In an economy, the saving and investment functions are given as	1	
	S = -100 + 0.2Y		
	I= 40		
	On the basis of the given information, the equilibrium level of income will		
	be		
	a) 600 b) 700 c) 1000 d)900		
2.	If nominal GDP is Rs 600cr and the value of GDP deflator is 120, find the value	1	
	of real GDP.		
	a) Rs. 480cr b)Rs. 720cr c)Rs. 500cr d)Rs. 50 cr		
3.	Read the following statements carefully	1	
	<b>Statement 1:</b> The RBI maintains the cash reserves of the commercial banks and the		
	country's foreign exchange reserves.		
	<b>Statement II:</b> The RBI accepts deposits from the general public and creates credit in		
	the economy.		
	In light of the given statements, choose the correct option from the following.		
	a) Statement I is true but Statement II is false.		
	b) Statement I is false but Statement II is true.		
	c) Both statements I and II are true.		
	d) Both statements I and II are false.		
4.	Read the following statements carefully	1	
	<b>Statement 1:</b> Devaluation of currency is said to occur when the exchange rate is		
	decreased under the fixed exchange rate system.		
	<b>Statement II:</b> Under the floating exchange rate system, competent authorities do not		
	maintain foreign exchange reserves.		
	In light of the given statement, choose the correct option from the following.		
	a) Statement I is true but Statement II is false.		
	b) Statement I is false but Statement II is true.		
	c) Both statements I and II are true.		
	d) Both statements I and II are false.		



# 9. Read the following statements: Assertion (A) and Reason (R). Choose the correct option from those given below:

**Assertion** (A): External Assistance is recorded in the Current Account of the Balance of Payments of a nation.

**Reason (R):** External Assistance includes bilateral and multilateral loans received/extended by a nation.

### **Options**:

- A. Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).
- B. Both Assertion (A) and Reason (R) are true, but Reason (R) is not the correct Explanation of Assertion (A).
- C. Assertion (A) is true, but Reason (R) is false.
- D. Assertion (A) is false, but Reason (R) is true.
- 10. Read the following statements: Assertion (A) and Reason (R). Choose the correct option from those given below:

**Assertion** (A): In India, no one can refuse to accept payment made in currency notes.

**Reason** (R): Currency notes are unlimited legal tender in India.

### **Options:**

- A. Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).
- B. Both Assertion (A) and Reason (R) are true, but Reason (R) is not the correct Explanation of Assertion (A).
- C. Assertion (A) is true, but Reason (R) is false.
- D. Assertion (A) is false, but Reason (R) is true.

11. Calculate the value of "Change in stock" from the following data.

SL.NO. **Items Amount (in Crores)** Sales 400 I Π Net Value Added at Factor Cost(NVAfc) 200 III **Subsidies** 10 IV Change in stock 40 Depreciation VI Intermediate consumption 100

2. The power of commercial banks which enables them to expand their deposits through loans is called credit creation. Legal Reserve Ratio (LRR) is the minimum reserve that a commercial bank must maintain in a liquid form as per the instructions of the Central bank. LRR has two components (i) Cash Reserve Ratio (CRR)-It is the fraction of net total demand and time deposits that commercial banks must keep as cash reserves with Central bank. (ii) Statutory Liquidity Ratio (SLR) – it is the fraction of net total demand and time deposits that commercial banks must keep with themselves in the form of specified liquid assets.

Assumptions of Credit creation-

- (i) There is a single banking system in the economy.
- (ii)All transactions are routed through the banks Commercial banks are called the factories of credit. They advance much more than what they collect from the public in the form of deposits. Through the process of credit creation, the commercial banks provide finance to all the sectors of economy.
- 1. Which bank is called the factory of credit creation?
  - a. Govt. b. Commercial Bank c. LIC d. None of these
- 2.If CRR=5% and LRR=20% then what is the SLR?

a.5% b.10% c.15% d.None of these

1

3

	3. Which of the following is NOT the assumptions of credit creation process?				
	<ul><li>a. There is a multiple banking system in the economy.</li><li>b. All transactions are routed through the banks.</li></ul>				
	c.Both		ic banks.		
	d.None	of these.			
			OR		
	"Central b	ank acts as the banker to the Go	overnment". Elaborate the given statement.	3	
13.		constant prices is often considered arrent prices". Do you agree? Ju	ed a better measure of economic growth than stify your answer.	4	
14.			4		
	Differentia	ate between Balance of Trade a	OR and Balance of Payment.	4	
15.			0.75Y (where C = consumption expenditure	4	
	and Y = National Income) and investment expenditure Rs. 1000, calculate.				
	-	uilibrium level of National inconsumption expenditure at equil	ome ibrium level of National Income		
16.			? How is fiscal policy used to solve the problem	3	
		excess demand and deficient de	mand? ment is higher than planned saving. Explain the	3	
			to restore equilibrium in the economy.	3	
17.	(A) On t	he basis of the given informat	ion, calculate the value of:	3+2+1	
	(i) Fisca	al deficit			
	(ii) <b>Prin</b>	nary deficit			
	S.No. Items 2024-25(₹in crore)				
	(i)	Revenue Receipts	20		
	(ii) Capital Expenditure 15				
	(iii) Revenue Expenditure 10				
	(iv) Non-debt creating capital 50% of revenue receipts receipts				
	(v)	Interest Payments	4		

(C) Explain the economic stability objective of Government Budget.  (D) *Under the Ayushmaan Bharat Scheme, the Government provides free medicines to the economically backward section of the society'. Identify and discuss the nature of the government expenditure indicated in the given statement.  SECTION B – INDIAN ECONOMIC DEVELOPMENT  18. Read the following statement and answer the question that follows:  "Disguised unemployment is a situation where more people are employed than actually needed."  Question:  Which of the following statements correctly explains the above situation?  A. All workers are working full-time and efficiently.  B. Removal of a few workers does not affect total output.  C. Workers are fully and productively employed.  D. All workers contribute equally to production.  19. Read the following statement and choose one of the correct alternatives given below:  Statement 1: Under the New Economic Policy, quantitative restrictions on imports and exports were greatly reduced.  Statement 2: Import duties were considerably increased in the New Economic Policy to improve the competitiveness of domestic industries.  a) Both the statement is false.  c) Statement (1) is true but Statement (2) is false  d) Statement (1) is true but Statement (2) is true  Khusbu decides to pursue higher education in engineering. Later, she earns a higher income and contributes more to the country's production.  Which economic concept does this situation best illustrate?  a) Human developmen  b) Human capital formation c) Employment generation  c) Employment generation  d) Social welfare  21. Assertion (A): Rural credit is essential for agricultural growth in India.  Reason (R): Farmers need funds to buy modern inputs like HYV seeds, fertilizers, and machinery.  Choose the correct option:  a) Both A and R are true, but R is not the correct explanation of A.  b) Both A and R are true, but R is not the correct explanation of A.  c) A is true, but R is false.  d) A is false, but R is true.  Column 1  (A) First official ce		(B) State any two features of public goods.		
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B, choose the incorrect pair:  Column I  (A) First official census of India		d) A is false, but R is true.		1
Column I Column II  (A) First official census of India 1881	22.		nd the corresponding year in column	1
(A) First official census of India 1881				
(B) Opening of suez canal 1969		, ,		

	(C ) Incorporation of TISCO	1907	
	(D)Introduction of railway	1950	
23.	development in India.	•	1
24.	·	of Industrial Revolution led to the	1
	(Choose the correct option		
	A. reversal of supply-demand relationsh	ip of environmental resources	
	B. decrease in demand for environment	al resources	
	C. decrease in the average temperature	of the earth's lower atmosphere	
	D. increase in the environmental quality	,	
25.	a e e	Choose the correct option which indicates tresting of felling of Trees and related invironmental concerns in Karnataka.  a) Chipko Movement b) Appiko Movement c) Plateauco Movement d) Siftico Movement	
26.	GLF campaign started by China in the	ne year	1
	(a) 1968 (b) 1958 (c) 1978	(d) 1998	
27.		Revolution is  . Verghese Kurien .rdar Vallabhbhai Patel	1
28.	<u>'</u>	g information related to Annual Growth of	3
	Country 1980-		
	India 5.7		
	China 10.3		
29.	In a survey of a small town, it was fou  Out of 5,000 people, 3,200 were  300 people were looking for job	and that: working. s but could not find any. our force (students, elderly, etc.). wing:	3

	b. Identify the type of unemployment reflected in this situation.	
	c. Suggest one measure to reduce such unemployment.	
	<b>OR</b> Define Environment. What are the functions of environment?	2
30.		3
30.	Read the following passage and answer the questions:  In 1991, India faced a severe balance of payments crisis. Foreign exchange reserves had fallen sharply, and the country struggled to pay for essential imports. The government responded by introducing the New Economic Policy, which focused on liberalisation, privatisation, and globalisation (LPG). Restrictions on imports and investments were reduced, public sector monopolies were curtailed, and foreign investment was encouraged.  Questions:  a. What was the main reason for introducing the New Economic Policy in 1991?  b. Explain one measure taken under liberalisation.	4
	c. How did privatisation aim to improve the Indian economy?	
	d. Give one positive outcome of the New Economic Policy.	
	<b>OR</b> What were the main causes of India's agricultural stagnation during the colonial period?	4
2.1		
31.	(I) "India has been a part of many regional and global economic groupings such as G20, SAARC, BRICS etc."	3
	In the light of the given statement, briefly explain the importance of regional and global economic groupings.  (II) Define 'Special Economic Zone'.	1
32.	Identify the activity in the Picture. Explain how it contributes to the rural development in the Indian economy?	4
33.	(a) "The process of globalisation through liberalisation and privatisation has produced positive, as well as, negative results for India." Do you agree with the given statement? Give valid explanation in support of your answer.	3
	(b) "The Government of India was compelled to introduce the economic reforms of 1991."  State any two reasons behind the introduction of Economic Reforms of 1991.  OR	3
	Read the following hypothetical text and answer the given questions: The performance of the Indian economy during the period of first seven five-year plans (1950-1990) was satisfactory if not very impressive. On the eve of independence, India was an industrially backward country, but during this period of first seven plans our industries became far more diversified, with the stress being laid on the public investments in the industrial sector. The policy of import substitution led to protection of the domestic industries	

		against the foreign producers but we failed to promote a strong export surplus. Although the public sector expanded to a large extent, it could not bring the desired level of improvement in the secondary sector. Excessive government regulations prevented the natural trajectory of growth of entrepreneurship as there was no competition, no innovation and no modernization on the front of the industrial sector. Many Public Sector Undertakings (PSU's) incurred huge losses due to operational inefficiencies, red-tapism, poor technology and other similar reasons. These PSU's continued to function because it was difficult to close a government undertaking even if it was a drain on the country's limited resources. On the Agricultural front, due to the measures taken under the Green Revolution, India more or less became self-sufficient in the production of food grains. So the need for reform of economic policy was widely felt in the context of changing the global economic scenario to achieve desired growth in the country.	
		Q-1 What are the reasons for the public sector to play a major role in the initial	
		phase of Indian Economic Planning?	2
		Q - 2 write benefits of inward-looking trade strategy. (Any two)	2
		Q-3 Write two benefits of Green revolution.	2
L	24	Dead the manage below and an amount he arrest and the fall and	
	34.	Read the passage below and answer the questions that follow:	
		India's economic growth largely depends on the productivity of its workforce. Investment in education, health, and skill development enhances the abilities of people, enabling them to contribute more effectively to the economy. Countries that have invested heavily in human capital, like South Korea and Japan, have witnessed rapid growth and higher per capita income. In India, despite efforts in literacy and health improvement, challenges like low skill levels, malnutrition, and regional disparities still affect productivity.	
		Questions:	1.5
		a. Define human capital formation.	
		b. Explain any two ways through which investment in human capital increases productivity.	1.5
		c. Identify two challenges India faces in human capital formation.	1.5
		d. Give one example of a government initiative to improve human capital in India	1.5
L			

# KENDRIYA VIDYALAYA SANGATHAN, BHUBANESWAR REGION PRE-BOARD-1 QUESTION PAPER-2025-26 CLASS-XII

SUBJECT: - HISTORY (027)

TIME:-3 HOURS Maximum Marks:-80

#### **GENERAL INSTRUCTIONS:**

- I. All questions are compulsory.
- II. Question paper comprises five section-A, B, C, D and E .There are 34 questions in the question paper.
- III. Section A-Question 1 to 21 are MCQs of 1 mark each.
- IV. Section B- Question no. 22 to 27 are Short answer type questions, carrying 3 marks each. Answer to each question should not exceed 60-80 words.
- V. Section C- Question no. 28 to 30 are Long answer type questions, carrying 8 marks each. Answer to each question should not exceed 300-350 words.
- VI. Section D- Question no. 31 to 33 are Source Based questions with three sub questions and are of 4 marks each.
- VII. Section E- Question no. 34 is Map Based, carrying 5 marks that includes the identification and location of significant test items. Attach the map with the answer book.
- VIII. There is no overall choice in the question paper. However, an internal choice has been provided in few questions. Only one of the choices in such questions have to be attempted.
  - IX. In addition to this, separate instructions are given with each section and question wherever necessary.

#### **SECTION-A**

Q.1.Which of the following places of Harappan Civilisation is associated with fire altars?

(a) Harappa.
(b) Kalibanga
(c) Mohenjo-Daro
(d) Rakhigarhi

Q.2.Which one of the following is NOT a correct statement about Mahajanpadas?

1
(a)Most Mahajanpadas were ruled by Kings.
(b) Some known as ganas or sanghars were oligarchies.
(c) Each Mahajanpadas had a capital city which was often fortified.
(d) Panchala became the most powerful Mahajanpada between 6th - 4th centuries BCE

Q.3 Match the following and select the correct option:-

List 1 List 2

- 1. Numismatics a. land granted to a Brahmana
- 2. Periplus of the b. the study of coins including visual elements Erythraean Sea
- 3. Votive inscriptions c. record gifts made to religious institutions.
- 4. Agrahara d. sailing around the Red Sea

### Options:-

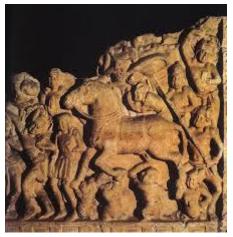
(a) 1-b, 2-d, 3-c, 4- a. (b) 1-b, 2-a, 3-c, 4-d. (c) 1-d, 2-b, 3-a, 4-c (d) 1-a, 2-c, 3-d, 4-b

- Q.4. Which of the following statements are true regarding Mahabharata?
  - (i) The Sanskrit version of Mahabharata is far simpler than Vedas.
    - (ii) Historians classified Mahabharata into two broad heads as the narrative and the

didactic.	
(iii) The Mahabharata is a dynamic te	∍xt.
(iv) Didactic portion was first to be w	ritten.
Options:-	
(a) i, ii and iii. (b) i, iii and iv. (c) ii	, iii and iv. (d) i, ii and iv
Q.5.Which of the following is an example of	a patrilineal society?
(a) A society where property is inherited	by daughters
(b) A society where the mother's family i	s considered more important
(c) A society where the father's family is	considered more important
(d) A society where property is distribute	d equally among all family members
Q.6.Which of the following statements regar	ding Colin Mackenzie are correct? Choose the
correct option:-	1
<ol> <li>The ruins of Hampi were brought to I</li> </ol>	ight in 1800 by him.
II. He was an official of East India Com	pany.
III. He prepared the first survey maps of	the site.
IV. He received information of Vijayanag	gar Empire from Duarte Barbosa.
Options:-	
(a) I, II and III.	(b) II, III and IV
(c) I, III and IV.	(d) I, II and IV
Q.7. Which one of the following pair is correct	tly matched?
LIST- 1( Name of Important Committees of ( Assembly)	Constituent LIST-2 ( Name of President)
(a)Flag Committee	H.C.Mukhrjee
(b) Union Power Committee	Pandit J.L.Nehru
(c ) Rules of Procedure Committee	S.Varadachariar
(d) States Committee	J.B. Kripalani
• •	sembly in shaping India's democratic values? 1
(a) It established a monarchy	sembly in shaping maia's democratic values:
(b) It promoted a single-party system	
(c) It ensured the representation of dive	rse interests
(d) It created a framework for democrati	
Q.9. Arrange the following historical events in	-
the correct options:-	1
Making of the Constituent Assembly	·
II. Jallianwala Bagh Massacre	
III. Quit India Movement	
IV.Gandhi - Irwin Pact	
Options:-	
•	II, IV, III and I
	/, III, I and II
• •	eature of the 'Subsidiary Alliance' introduced by
Lord Wellesley in 1798?	1
(a) Free Trade Policy brought by Britis	h.
(b) Maintenance of native army by Brit	
(c) Imposition of Western Customs by	
(d) Protection of native territory by Bri	
. ,	t of assertion followed by a statement of reason is

Assertion (A): The Revolt of 1857 led to significant changes in British policy towards India. Reason (R): The British government abolished the East India Company and took direct control of India. (a) Both A and R are true, and R is the correct explanation of A (b) Both A and R are true, but R is not the correct explanation of A (c) A is true, but R is false (d) A is false, but R is true Q.12. Consider the following statements regarding the establishment of British East India Company in Bengal:-1 1. The Permanent Settlement had come into operation in 1793. 2. In 1797 there was an auction in Burdwan, during which a number of Mahals held by the Raja of Burdwan were being sold. 3. The estates of those who failed to pay were to be auctioned to recover the revenue. Which of the following statement(s) is/are correct? (a) Only 1. (b) 1 & 2. (c) 1&2. (d) 1, 2 & 3 Q.13. Imagine you are a British colonial administrator tasked with implementing a new land revenue policy in rural India. What would be the most effective way to minimise resistance from peasants? 1 (a) Imposing harsh penalties for non-payment (b) Offering incentives for timely payment (c) Consulting with local leaders and considering their concerns (d) Ignoring peasant grievances Q.14. Though agriculture was labour intensive, peasants did use technologies in the 17<sup>th</sup> century. Which of the following was not technology based? (a) Use of wooden plough with an iron tip or coulter (b) A drill, pulled by a pair of giant oxen (c) Seed broadcasting (d) Hoeing and weeding by using a narrow iron blade Q.15.Choose the correct option: The book deals with the fiscal side of the empire and Provides rich quantitative information on revenue rates. 1 (a)Manzil-abadi. (b)Sipah-abadi. (c) Mulk- abadi (d) Aam - abadi Q.16. Al-Biruni's major work 'Kitab-ul-Hind' is significant for its comprehensive study of India. Which of the following was the primary aim of this book? 1 (a)Promote Islamic teachings (b) Map geographical locations. (d) Critique culture and traditions (c) Document Indian culture. Q.17. Which of the following statements is/are correct about François Bernier? 1 1. He was a doctor, political philosopher and historian. 2. He was closely associated with Danishmand Khan, an Armenian noble. 3. He was in India for 12 years, from 1656 to 1668. 4. He translated the Mahabharata into English. Options:-(a)1,2,3,4. (b) 1, 2, 3. (c) 1, 3, 4. (d) 2,3,4Q.18 In a modern city, a group of friends discuss the relevance of Kabir's teachings in today's society. Some believe these are outdated, while other see their significance in promoting equality and love. Which of these scenario best reflects Kabir's relevance today? 1 (a) A debate on Kabir's historical context.

- (b) A discussion dismissing spirituality irrelevant.
- (c) Focus on societal norms and trades only.
- (d) Seeking simple connection with the divine.
- Q.19. It is a sculpture depicting the departure of the Buddha from his palace. Identify the Picture from the given options.



- (a) A sculpture from Sanchi
- (b) A sculpture from Shah ji-ki-Dheri
- (c) A sculpture from Bharhut
- (d) A sculpture from Amravati
- Q.20 "Be lamps unto yourselves as all of you must work out your own liberation." Identify the essence of the words of Buddha from the options given below:
- (a) One should connect to inner being.
- (b) should live life of brahmacharya
- (c) One should focus and express feelings
- (d) One should spread religion everywhere.
- Q.21 In the following questions, a statement of assertion followed by a statement of reason is given. Choose the correct answer out of the choices.
- Assertion (A):- The Bhakti saints used vernacular languages to compose devotional poetry and songs.
- Reason (R):- They wanted to reach a limited audience and make spiritual knowledge accessible to them.
- (a) Both A and R are true and R is the correct explanation of A.
- (b) Both A and R are true but R is not the correct explanation of A.
- (c) A is true but R is false.
- (d) A is false but R is true.

## **SECTION-B**

Q.22. Describe briefly the sources used for reconstructing the history of the Gupta rulers. 3

OR 3

How has a coinage played a valuable role in determining certain period of Indian history?

3

3

- Q.23. Describe the various stages through which Mahabharata was compiled in the 20th century. Discuss any three points.
- Q.24. Bernier's description of imperial land ownership influenced Western theorists like French philosopher Montesquieu and German Karl Marx." Justify it with suitable arguments.
- Q.25. "Historians who have carefully studied the Ain-i-Akbari point out that it is not without it's problems." Analyse the limitations of Ain-i-Akbari as a source of Akbar's region.
- Q.26 "The battle between the hoe and plough was a long one." Justify the statement with suitable examples.

Q.27 "The three lists of subjects provided by the Drafting Committee in the Constituent Assembly prevent conflict among the levels of the governments". Examine the statement with relevant examples. Explain the ideals introduced by Jawaharlal Nehru in the 'Objectives Resolution' that were kept in mind while framing the Constitution of India. **SECTION-C** Q.28 Examine how the fortification system of the Vijayanagar Empire reflected it's military strategies, urban planning and socio-political priorities. 8 Discuss the significance of the rituals associated with the Mahanavami Dibba. 8 Q.29 Discuss the point that newspapers in the Gandhian era were not merely a means of news reporting but instruments of political mobilisation. How were they used during the National Movement? OR Explain how different kinds of sources help to reconstruct Gandhiji's political career and the history of the National Movement. Q.30 Explain why many scholars believe there may have been rulers in the Harappan society. 8 OR How did the trade in Harappan-crafted goods impact economic interactions with neighboring regions? 8 SECTION-D Q.31 Read the given passage and answer the following questions: 4 **Buddhism** in practice This is an excerpt from the Sutta Pitaka and contains the advice given by the Buddha to a wealthy householder named Sigala; In five ways, a master should look after his servants and employees... by assigning them work according to their strength, by supplying them food and wages, by tending to them in sickness, by sharing delicacies with them and by granting leave at times... In five ways, the clansmen should look after the needs of samana( those who have renounced the world) and Brahmanas: by affection in act, speech and mind, by keeping open house to them and supplying their worldly needs. There are similar instructions to Sigala about how to behave with his parents, teacher and wife. (i) Explain the significance of the Sutta Pitaka in Buddhism. 1 1 (ii) How did Buddha advice the wealthy householders to be human and ethical? (iii) What do you think was the advice given by Buddha to Sigala on how to behave with his

# Q.32 Read the given passage and answer the following questions:

Here is a composition attributed to Kabir:

Tell me, brother, how can there be No one lord of the world but two?

Who led you so astray?

parents and teachers?

God is called by many names: Names like Allah, Ram, Karim, Keshav, Hari, and Hazrat.

The One Lord

2

Gold may be shaped into rings and bangles.

Isn't it gold all the same?

Distinctions are only words we invent....

Kabir says they are both mistaken.

Neither can find the only Ram. One kills the goat, the other cows.

They waste their lives in disputation.

(i) How has Kabir advocated an inclusive and compassionate view of humanity?
 (ii) How did Kabir describe the ultimate reality?
 (iii) How does Kabir's philosophy contribute to a broader understanding of spiritualism?
 Q.33 Read the given passage and answer the following questions:

#### Maulvi Ahmadullah Shah

Maulvi ahmadulla Shah was one of the many moles who played an important part in the revolt of 1857. Educated in Hyderabad, he became a preacher when young. In 1856, he was seen moving from village to village preaching Jehad (religious war) against the British and urging people two rebel. He moved in a palanquin, with drumbeaters in front and followers at the rear. He was therefore popularly called Danka Shah- the maulvi with the drum (danka). British officials panicked as thousands began following the maulvi and many Muslims began seeing him as an inspired prophet. When he reached Lucknow in 1856 he was stopped by the police from preaching in city. Subsequently, in 1857, he was jailed in Faizabad. When released, he was elected by the mutinous 22nd Native Infantry as their leader. He fought in the famous Battle of Chinhat in which the British forces under Henry Lawrence were defeated. He came to be known for his courage and power. Many people in fact believed that he was invincible, had magical powers, and could not be killed by the British. It was this belief that partly formed the basis of his authority.

- (i) By what name was Maulvi Ahmadullah Shah popularly known?
- (ii) How did Maulvi ahmadulla Shah contribute to the Revolt of 1857?
- (iii) What beliefs about Maulvi Ahmadullah Shah contributed to his influence during the revolt? 2

1

### **SECTION-E**

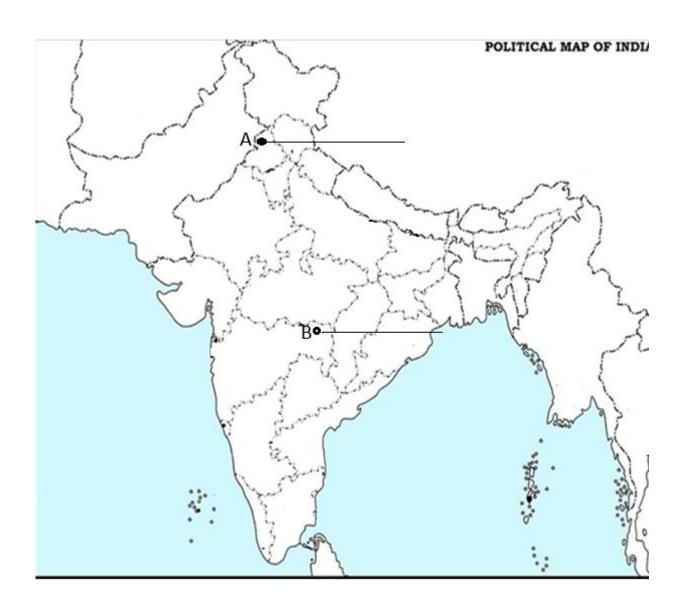
Q.34 (i) On the given political map of India, locate and lebel the following with appropriate symbols:

- a. Lothal- a mature Harappan site
- b. Ajmer- Dargha of Garibnawaz
- c. Kaushambi- a pillar inscription

OR

- d. Taxila- an ancient learning centre.
- 34.(ii) On the same outline map two places have been marked as A and B, which are the centres of Indian national Movement. Identify them and write their correct names on the lines drawn near them.

\*\*\*\*\*



#### KENDRIYA VIDYALAYA SANGATHAN BHUBANESWAR REGION

### FIRST PRE-BOARD EXAMINATION 2025-26 (SET-I)

CLASS: XII (HUMANITIES) SUBJECT: GEOGRAPHY (029)

TIME ALLOWED: 3.00 HOURS MAXIMUM MARKS: 70

#### **GENERALI NSTRUCTIONS:**

- 1. This question paper contains 30 questions. All questions are compulsory.
- 2. This question paper is divided into five sections. Sections-A, B, C, D and E.
- 3. Section A- Question number 1 to 17are Multiple Choice type questions carrying 1 mark each.
- 4. Section B- Question number 18 and 19 are Source based questions carrying 3 marks each.
- 5. Section C- Question number 20 to 23are Short Answer type questions carrying 3 marks each. Answer to these questions shall be written in 80 to 100 words.
- 6. Section D- Question number 24 to 28are Long Answer type questions carrying 5 marks each. Answer to these questions shall be written in 120 to 150 words.
- 7. Section E- Question number 29 and 30are Map based questions carrying 5 marks each.
- 8. In addition to this, note that a separate question has been provided for Visually Impaired candidates in lieu of questions having visual inputs map etc. Such questions are to be attempted by Visually Impaired candidates only.
- 9. There is no overall choice given in the question paper. However, an internal choice has been provided in a few questions in all sections, except Section A.

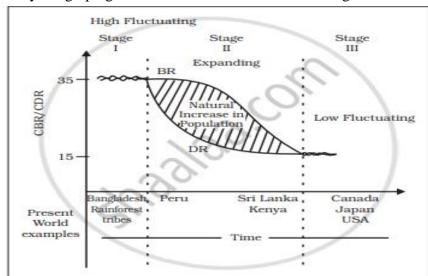
SL. NO	QUESTIONS	MARK S
•	SECTION-A	
	Refer to the bar graph displaying the population of various countries.  How many countries shown in the graph have a population of <b>200 million or more</b> ?	1
	Mexico Russia Bangladesh Nigeria Pakistan Brazil Indonesia U.S.A India China 0 200 400 600 800 1000 1200 1400 1600 Population in Million	

- A. 3
- B. 5
- C. 4
- D. 6

# The following question is for Visually Impaired Candidates only in lieu of Question No.1.

Which country has the highest population in the American continent?

- A. Brazil
- B. Mexico
- C. U.S.A.
- D. Argentina
- 2 Study the graph given below and answer the following.



A country is currently experiencing high fertility and high mortality because people reproduce more to compensate for the deaths due to epidemics and variable food supply. The population growth is slow and most of the people are engaged in agriculture where large families are an asset. Based on the

Demographic Transition Theory, this country is most likely in which stage?

- A. Stage I: High Fluctuating
- B. Stage II: Expanding
- C. Stage III: Low Fluctuating
- D. Pre-Transition Phase

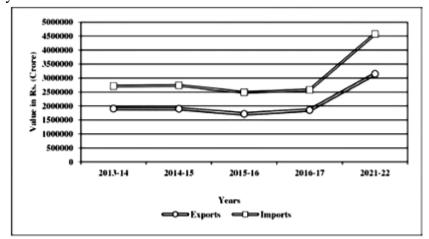
# The following question is for Visually Impaired Candidates only in lieu of Question No.2.

Which of the following is a characteristic of stage one of the Demographic Transition Theory?

- A. High fertility and high mortality
- B. Both fertility and mortality declined considerably
- C. High growth of population
- D. Fertility rate is high, and the mortality rate declines

3	Countries with HDI below 0.550 are mo A. Rapid industrial growth and high per B. Political turmoil, social instability, an C. Strong educational and healthcare inf D. High levels of human security and eq	capita income ad poor health facilities rastructure	1
4	Assertion (A): Natural growth of popular Reason (R): Natural growth depends on death rate.  A. Both (A) and (R) are true, and (R) is B. Both (A) and (R) are true, but (R) is r. C. (A) is true, but (R) is false.  D. (A) is false, but (R) is true.	ation includes migration factors.  the difference between birth rate and the correct explanation of (A).	1
5	Select the activity that does <b>not</b> belong to A. Tax consultant providing information B. Research scientist developing new more C. Accountant preparing financial statem D. Delivery person transporting product	n-based services edicines nents for clients	1
6	Match the pillars of Human Development Policies/Initiatives  1. Promoting community involvement in decision-making  2. Ensuring training programs for youth to enhance work skills  3. Conserving natural resources for future generations  4. Providing equal healthcare facilities to all regions  A. 1-a, 2-b, 3-c, 4-d  B. 1-b, 2-a, 3-d, 4-c  C. 1-c, 2-d, 3-b, 4-a  D. 1-d, 2-c, 3-a, 4-b	nt with their characteristics:  Pillar of Human Development a. Equity b. Sustainability c. Empowerment d. Productivity	
7	Identify the <b>incorrect</b> statement about R A. Regional Trade Blocs promote to countries with complementary por B. They were formed because global intra-regional trade. C. Regional Trade Blocs remove tra	rade among geographically close roducts. al organizations successfully promoted	1

8 The given graph shows the trend of exports and imports (in Rs. Crores) over the years 2013-14 to 2021-22.



Source: Economic Survey 2022-23

Which of the following statements is **NOT** correct according to the given graph?

- A. Imports remained constant throughout the period from 2013-14 to 2021-22.
- B. Exports and imports both showed an upward trend after 2016-17.
- C. There was no significant change in exports between 2013-14 and 2016-17
- D. Imports increased significantly compared to exports from 2016-17 to 2021-22.

# The following question is for Visually Impaired Candidates only in lieu of Question No. 8

Which one of these statements about India's trade is true?

- A. China and other East Asian countries are major competitors in India's exports.
- B. India faces no competition in engineering goods exports.
- C. Manufacturing contributes very little to India's total exports.
- D. Gems and jewellery are not part of India's foreign trade.

# There are four distinct phases of population growth identified in India over the last one century. Identify the phase from the given description.

The growth rate of country's population though remained high, has started slowing down gradually. A downward trend of crude birth rate is held responsible for such a population growth. This was in turn affected by an increase in the mean age at marriage, improved quality of life particularly education of females in the country. The growth rate of population is however still high in the country.

- A. Phase I (1901-1921)
- B. Phase II (1921-1951)
- C. Phase III (1951-1981)
- D. Phase IV (1981 to till present)

10					-	
	Why do regions with lower econ	omic develo	pment often	show higher	work	1
	participation rates?	1.6				
	A. More manual labor is require		ence activitie	S		
	B. They have more IT industries					
	C. Their literacy rate is higher					
	D. They have higher urbanizatio					
11	The Intensive Agricultural Distr		` /	d Intensive		1
	Agricultural Area Programme (I		aunched to:			
	A. Introduce HYVs of wheat and					
	B. Overcome stagnation in agric			late 1950s		
	C. Export surplus foodgrains to		es			
	D. Promote cash crops over food					
12	Which of the following statemer	_		use in India	between	1
	1950-51 and 2014-15 is correct	based on the	table?			
	A. The percentage of culturable	waste land a	s part of total	cultivable la	and	
	increased, while net area sown a	s a percentag	ge decreased.			
	B. Total cultivable land as a percentage of the B. Total cultivate land as a percentage of the B. T	centage of re	porting area	dropped stee	ply, while	
	fallow other than current fallow	increased as	a percentage	of total culti	ivable	
	land.					
	C. The share of culturable waste	land and fal	low (other th	an current fa	llow) both	
	declined as a percentage of repor	rting area, w	hile current fa	allow and ne	t area	
	sown increased.					
	D. Current fallow land and net a	rea sown bot	th fell as a pe	rcentage of r	eporting	
	D. Current fallow land and net a area, while the total cultivable la		-	-		
	area, while the total cultivable la	and as a perce	entage of rep	orting area ro	ose.	1
		and as a perce	-	orting area ro		 
	area, while the total cultivable la	and as a perce	entage of reportant	orting area ro	ose.	
	area, while the total cultivable la  Agricultural Land-use Categories	As a percentage As a percentag	reentage of reporting Area 2019-20	As a peretotal culti	ose. centage of vable land 2019-20	
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	area, while the total cultivable la  Agricultural Land-use Categories	As a percentage As a percentag	reentage of reperting Area  2019-20  3.9	As a peretotal cultive 1950-51	centage of vable land 2019-20 6.8	
	area, while the total cultivable la  Agricultural Land-use Categories  Culturable Waste land Fallow other than Current Fallow	As a percentage As a percentag	reentage of reporting Area  2019-20  3.9 3.7	As a peritotal cultivate 1950-51	centage of vable land 2019-20 6.8 6.4	
	Agricultural Land-use Categories  Culturable Waste land Fallow other than Current Fallow Current Fallow	As a percentage As a percentag	centage of reperting Area  2019-20  3.9 3.7 4.5	As a pertotal cultivate 1950-51  13.4  10.2  6.2	centage of vable land 2019-20 6.8 6.4 7.8	
	Agricultural Land-use Categories  Culturable Waste land Fallow other than Current Fallow Current Fallow Net Area Sown Total Cultivable Land	As a percentage of the second as a percentage of the second secon	2019-20 3.9 3.7 4.5 45.6 57.7	As a peretotal culti 1950-51 13.4 10.2 6.2 70.0	centage of vable land  2019-20  6.8 6.4 7.8 79.0  100.00	
3	Agricultural Land-use Categories  Culturable Waste land Fallow other than Current Fallow Current Fallow Net Area Sown  Total Cultivable Land  Consider the following statement	As a percentage of the second as a percentage of the second secon	2019-20 3.9 3.7 4.5 45.6 57.7	As a peretotal culti 1950-51 13.4 10.2 6.2 70.0	centage of vable land  2019-20  6.8 6.4 7.8 79.0  100.00	1
	Agricultural Land-use Categories  Culturable Waste land Fallow other than Current Fallow Current Fallow Net Area Sown Total Cultivable Land  Consider the following statemen Yojana (Atal Jal):	As a percentage of the second as a p	centage of reporting Area  2019-20  3.9 3.7 4.5 45.6  57.7  implementati	As a period total cultivate 1950-51  13.4 10.2 6.2 70.0 100.00  on of the Ata	centage of vable land  2019-20  6.8 6.4 7.8 79.0  100.00  al Bhujal	
3	Agricultural Land-use Categories  Culturable Waste land Fallow other than Current Fallow Current Fallow Net Area Sown  Total Cultivable Land  Consider the following statemen Yojana (Atal Jal):  1. It focuses on bringing be	As a percentage of the second as a p	centage of reporting Area  2019-20  3.9 3.7 4.5 45.6  57.7  implementati	As a period total cultivate 1950-51  13.4 10.2 6.2 70.0 100.00  on of the Ata	centage of vable land  2019-20  6.8 6.4 7.8 79.0  100.00  al Bhujal	
3	Agricultural Land-use Categories  Culturable Waste land Fallow other than Current Fallow Current Fallow Net Area Sown Total Cultivable Land  Consider the following statemen Yojana (Atal Jal):  1. It focuses on bringing be water-stressed areas.	As a percentage of the second as a p	centage of reporting Area  2019-20  3.9 3.7 4.5 45.6  57.7  implementation	As a peretotal cultive 1950-51  13.4 10.2 6.2 70.0 100.00  on of the Ata	centage of vable land 2019-20 6.8 6.4 7.8 79.0 100.00 al Bhujal	
3	Agricultural Land-use Categories  Culturable Waste land Fallow other than Current Fallow Current Fallow Net Area Sown Total Cultivable Land  Consider the following statement Yojana (Atal Jal):  1. It focuses on bringing be water-stressed areas. 2. It aims to shift the attitude	As a percentage of the second as a p	centage of reporting Area  2019-20  3.9 3.7 4.5 45.6  57.7  implementation	As a peretotal cultive 1950-51  13.4 10.2 6.2 70.0 100.00  on of the Ata	centage of vable land 2019-20 6.8 6.4 7.8 79.0 100.00 al Bhujal	1
3	Agricultural Land-use Categories  Culturable Waste land Fallow other than Current Fallow Current Fallow Net Area Sown  Total Cultivable Land  Consider the following statement Yojana (Atal Jal):  1. It focuses on bringing be water-stressed areas. 2. It aims to shift the attitude conservation.	As a percentage of the series and as a p	centage of reporting Area  2019-20  3.9 3.7 4.5 45.6  57.7  implementation anges among from water continued and the continue	As a peretotal cultive 1950-51  13.4 10.2 6.2 70.0 100.00  on of the Atacommunities on sumption to the Atacommunities on sumption to the Atacommunities of the Atacommunities on sumption to the Atacommunities of the Atacommunities on sumption to the Atacommunities of the Atacommunities	centage of vable land 2019-20 6.8 6.4 7.8 79.0 100.00 al Bhujal es in	1
3	Agricultural Land-use Categories  Culturable Waste land Fallow other than Current Fallow Current Fallow Net Area Sown Total Cultivable Land  Consider the following statement Yojana (Atal Jal):  1. It focuses on bringing be water-stressed areas. 2. It aims to shift the attitude conservation. 3. It seeks to improve ground	As a percentage of the series and as a p	centage of reporting Area  2019-20  3.9 3.7 4.5 45.6  57.7  implementation anges among from water continued and the continue	As a peretotal cultive 1950-51  13.4 10.2 6.2 70.0 100.00  on of the Atacommunities on sumption to the Atacommunities on sumption to the Atacommunities of the Atacommunities on sumption to the Atacommunities of the Atacommunities on sumption to the Atacommunities of the Atacommunities	centage of vable land 2019-20 6.8 6.4 7.8 79.0 100.00 al Bhujal es in	
3	Agricultural Land-use Categories  Culturable Waste land Fallow other than Current Fallow Current Fallow Net Area Sown Total Cultivable Land  Consider the following statement Yojana (Atal Jal):  1. It focuses on bringing be water-stressed areas. 2. It aims to shift the attitude conservation. 3. It seeks to improve ground participation.	As a percentage of the people	2019-20  3.9 3.7 4.5 45.6 57.7  implementati anges among from water coagement thro	As a pertotal cultive 1950-51  13.4 10.2 6.2 70.0 100.00  on of the Ata communities on sumption to the ugh communities on the communities of the c	centage of vable land 2019-20 6.8 6.4 7.8 79.0 100.00 al Bhujal es in	
3	area, while the total cultivable la  Agricultural Land-use Categories  Culturable Waste land Fallow other than Current Fallow Current Fallow Net Area Sown  Total Cultivable Land  Consider the following statement Yojana (Atal Jal):  1. It focuses on bringing be water-stressed areas.  2. It aims to shift the attitude conservation.  3. It seeks to improve ground participation.  4. It includes both urban and	As a percentage of the people	2019-20  3.9 3.7 4.5 45.6 57.7  implementati anges among from water coagement thro	As a pertotal cultive 1950-51  13.4 10.2 6.2 70.0 100.00  on of the Ata communities on sumption to the ugh communities on the communities of the c	centage of vable land 2019-20 6.8 6.4 7.8 79.0 100.00 al Bhujal es in	1
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3	Agricultural Land-use Categories  Culturable Waste land Fallow other than Current Fallow Current Fallow Net Area Sown Total Cultivable Land  Consider the following statement Yojana (Atal Jal):  1. It focuses on bringing be water-stressed areas. 2. It aims to shift the attitude conservation. 3. It seeks to improve ground participation. 4. It includes both urban and A. 1, 2 and 3 only	As a percentage of the people	2019-20  3.9 3.7 4.5 45.6 57.7  implementati anges among from water coagement thro	As a pertotal cultive 1950-51  13.4 10.2 6.2 70.0 100.00  on of the Ata communities on sumption to the ugh communities on the communities of the c	centage of vable land 2019-20 6.8 6.4 7.8 79.0 100.00 al Bhujal es in	1

14	The district administration of Alwar, Ra	jasthan has taken up constructions of	1
	various water harvesting structures such	as percolation tanks, dug out ponds	
	(Johad), check dams, etc., through people	1	
		1 1	
	Which of the following program is relate	ed to this?	
	A. Neeru Meeru		
	B. Haryali		
	C. Arvary Pani Sansad		
	D. Jal Kranti Abhiyan		
15	,	ant has been commissioned at Manikaran	1
13	in Himachal Pradesh.	int has been commissioned at Mankaran	1
	<b>Reason (R):</b> Manikaran has natural hot	enrings that can be used to generate	
	geothermal energy.	springs that can be used to generate	
	Options:		
	-	ra true and Dasson (D) is the correct	
	A. Both Assertion (A) and Reason (R) a	re true, and Keason (K) is the correct	
	explanation of Assertion (A).	ro true but Dosson (D) is not the source	
		re true, but Reason (R) is not the correct	
	explanation of Assertion (A).	. 6.1	
	C. Assertion (A) is true, but Reason (R)		
1.5	D. Assertion (A) is false, but Reason (R)		4
16	Match the Trans–Continental Railway (		1
	Column A (Trans–Continental	Column B (Route)	
	Railway)		
	a. Australian Trans–Continental	1. St. Petersburg → Vladivostok	
	Railway		
	b. Trans–Siberian Railway	2. Perth → Sydney	
	c. The Orient Express	3. Paris → Istanbul	
	d. Union and Pacific Railway	4. New York → San Francisco	
	A. a-3, b-4, c-1, d-2		
	•		
	A. a-3, b-4, c-1, d-2		
	A. a-3, b-4, c-1, d-2 B. a-2, b-1, c-3, d-4		
17	A. a-3, b-4, c-1, d-2 B. a-2, b-1, c-3, d-4 C. a-1, b-2, c-3, d-4		1
17	A. a-3, b-4, c-1, d-2 B. a-2, b-1, c-3, d-4 C. a-1, b-2, c-3, d-4 D. a-4, b-1, c-2, d-3	Pawan Hans Limited:	1
17	A. a-3, b-4, c-1, d-2 B. a-2, b-1, c-3, d-4 C. a-1, b-2, c-3, d-4 D. a-4, b-1, c-2, d-3 Consider the following statements about	Pawan Hans Limited:	1
17	A. a-3, b-4, c-1, d-2 B. a-2, b-1, c-3, d-4 C. a-1, b-2, c-3, d-4 D. a-4, b-1, c-2, d-3 Consider the following statements about 1. It provides helicopter services m tourism.	Pawan Hans Limited: ainly for the petroleum sector and	1
17	A. a-3, b-4, c-1, d-2 B. a-2, b-1, c-3, d-4 C. a-1, b-2, c-3, d-4 D. a-4, b-1, c-2, d-3 Consider the following statements about 1. It provides helicopter services m tourism. 2. It plays an important role in proving the service of the proving the service of the	Pawan Hans Limited:	1
17	A. a-3, b-4, c-1, d-2 B. a-2, b-1, c-3, d-4 C. a-1, b-2, c-3, d-4 D. a-4, b-1, c-2, d-3 Consider the following statements about 1. It provides helicopter services m tourism. 2. It plays an important role in provand remote regions.	Pawan Hans Limited: ainly for the petroleum sector and viding connectivity in difficult terrains	1
17	A. a-3, b-4, c-1, d-2 B. a-2, b-1, c-3, d-4 C. a-1, b-2, c-3, d-4 D. a-4, b-1, c-2, d-3  Consider the following statements about 1. It provides helicopter services m tourism. 2. It plays an important role in provand remote regions. 3. It operates helicopter services in	Pawan Hans Limited: ainly for the petroleum sector and riding connectivity in difficult terrains hilly and remote areas of India.	1
17	A. a-3, b-4, c-1, d-2 B. a-2, b-1, c-3, d-4 C. a-1, b-2, c-3, d-4 D. a-4, b-1, c-2, d-3 Consider the following statements about 1. It provides helicopter services m tourism. 2. It plays an important role in provand remote regions. 3. It operates helicopter services in 4. It is widely used by tourists, part	Pawan Hans Limited: ainly for the petroleum sector and viding connectivity in difficult terrains hilly and remote areas of India. icularly in the north-eastern region.	1
17	A. a-3, b-4, c-1, d-2 B. a-2, b-1, c-3, d-4 C. a-1, b-2, c-3, d-4 D. a-4, b-1, c-2, d-3 Consider the following statements about 1. It provides helicopter services m tourism. 2. It plays an important role in provand remote regions. 3. It operates helicopter services in 4. It is widely used by tourists, part Which of the above statements are corre	Pawan Hans Limited: ainly for the petroleum sector and viding connectivity in difficult terrains hilly and remote areas of India. icularly in the north-eastern region.	1
17	A. a-3, b-4, c-1, d-2 B. a-2, b-1, c-3, d-4 C. a-1, b-2, c-3, d-4 D. a-4, b-1, c-2, d-3  Consider the following statements about 1. It provides helicopter services m tourism. 2. It plays an important role in provand remote regions. 3. It operates helicopter services in 4. It is widely used by tourists, part Which of the above statements are corre A. 1, and 4 only	Pawan Hans Limited: ainly for the petroleum sector and viding connectivity in difficult terrains hilly and remote areas of India. icularly in the north-eastern region.	1
17	A. a-3, b-4, c-1, d-2 B. a-2, b-1, c-3, d-4 C. a-1, b-2, c-3, d-4 D. a-4, b-1, c-2, d-3  Consider the following statements about 1. It provides helicopter services m tourism. 2. It plays an important role in provand remote regions. 3. It operates helicopter services in 4. It is widely used by tourists, part Which of the above statements are corre A. 1, and 4 only B. 1, 2, 3 and 4	Pawan Hans Limited: ainly for the petroleum sector and viding connectivity in difficult terrains hilly and remote areas of India. icularly in the north-eastern region.	1
17	A. a-3, b-4, c-1, d-2 B. a-2, b-1, c-3, d-4 C. a-1, b-2, c-3, d-4 D. a-4, b-1, c-2, d-3  Consider the following statements about 1. It provides helicopter services m tourism. 2. It plays an important role in provand remote regions. 3. It operates helicopter services in 4. It is widely used by tourists, part Which of the above statements are corre A. 1, and 4 only B. 1, 2, 3 and 4 C. 1 and 2 only	Pawan Hans Limited: ainly for the petroleum sector and viding connectivity in difficult terrains hilly and remote areas of India. icularly in the north-eastern region.	1
17	A. a-3, b-4, c-1, d-2 B. a-2, b-1, c-3, d-4 C. a-1, b-2, c-3, d-4 D. a-4, b-1, c-2, d-3  Consider the following statements about 1. It provides helicopter services m tourism. 2. It plays an important role in provand remote regions. 3. It operates helicopter services in 4. It is widely used by tourists, part Which of the above statements are corre A. 1, and 4 only B. 1, 2, 3 and 4	Pawan Hans Limited: ainly for the petroleum sector and viding connectivity in difficult terrains hilly and remote areas of India. icularly in the north-eastern region.	1
17	A. a-3, b-4, c-1, d-2 B. a-2, b-1, c-3, d-4 C. a-1, b-2, c-3, d-4 D. a-4, b-1, c-2, d-3  Consider the following statements about 1. It provides helicopter services m tourism. 2. It plays an important role in provand remote regions. 3. It operates helicopter services in 4. It is widely used by tourists, part Which of the above statements are corre A. 1, and 4 only B. 1, 2, 3 and 4 C. 1 and 2 only	Pawan Hans Limited: ainly for the petroleum sector and viding connectivity in difficult terrains hilly and remote areas of India. icularly in the north-eastern region.	1

## **SECTION-B** 18 Read the given passage carefully and answer the questions that follows: Benda lives in the wilds of the Abujh Maad area of central India. His village consists of three huts deep in the wilds. Not even birds or stray dogs that usually crowd villages can be seen in these areas. Wearing a small loin cloth and armed with his axe he slowly surveys the penda (forest) where his tribe practices a primitive form of agriculture called shifting cultivation. Benda and his friends burn small patches of forest to clear them for cultivation. The ash is used for making the soil fertile. Benda is happy that the Mahua trees around him are in bloom. How lucky I am to be a part of this beautiful universe, he thinks as he looks up to see the Mahua, Palash and Sal trees that have sheltered him since childhood. Crossing the penda in a gliding motion, Benda makes his way to a stream. As he bends down to scoop up a palmful of water, he remembers to thank Loi-Lugi, the spirit of the forest for allowing him to quench his thirst. Moving on with his friends, Benda chews on succulent leaves and roots. The boys have been trying to collect Gajjhara and Kuchla, from the forest. These are special plants that Benda and his people use. He hopes the spirits of the forest will be kind and lead him to these herbs. These are needed to barter in the madhai or tribal fair coming up the next full moon. He closes his eyes and tries hard to recall what the elders had taught him about these herbs and the places they are found in. He wishes he had listened more carefully. Suddenly there is a rustling of leaves. Benda and his friends know it is the outsiders who have come searching for them in the wilds. In a single fluid motion Benda and his friends disappear behind the thick canopy of trees and become one with the spirit of the forest. i. Name the type of human nature relationship described in the passage. 1 ii. Identify the type of agriculture practiced by Benda's tribe in the Abujh Maad 1 region. 1 iii. State the purpose for which Benda and his friends collect Gajjhara and Kuchla. 19 Read the given passage carefully and answer the questions that follows: Countries can be classified into four groups on the basis of the human development scores earned by them. Countries with very high human development index are those which have a score of over 0.800. According to the Human Development Report of 2023-24, this group includes 69 countries. High level of human development group has 49 countries. Providing education and healthcare is an important government priority. Countries with higher human development are those where a lot of investment in the social sector has taken place. Altogether, a higher investment in people and good governance has set this group of countries apart from the others. You will notice that many of these countries have been the former imperial powers. The degree of social diversity in these countries is not very high. Many of the countries with a high human development score are located in Europe and

		1
	represent the industrialised western world. Yet there are striking numbers of non-European countries also who have made it to this list.  Countries with medium levels of human development form the largest group. There are 42 countries in the medium level of human development. Most of these are countries which have emerged in the period after the Second World War. Some countries from this group were former colonies while many others have emerged after the break-up of the erstwhile Soviet Union in 1990. Many of these countries have been rapidly improving their human development score by adopting more people-oriented policies and reducing social discrimination. Most of these countries have a much higher social diversity than the countries with higher human development scores. faced political instability and social uprisings at some point of time in their recent history.  As many as 33 countries record low levels of human development. A large proportion of these are small countries which have been going through political turmoil and social instability in the form of civil war, famine or a high incidence of diseases. There is an urgent need to address the human development requirements of this group through well thought out policies.  i. Specify the factors that distinguish nations with higher human development from others.  ii. Identify the major global event responsible for the formation of many medium human development nations.  iii. State the major issues commonly faced by nations with low human development.	1 1
	SECTION-C	
	SECTION-C	
20	Define the term outsourcing. What are the consequences of outsourcing?	3
21	Examine the economic significance of the Trans–Canadian Railway.	3
22	Explain the main objective of the Smart Cities Mission and how it aims to improve the quality of urban life.	3
23	"The period 1901–1921 is referred to as a period of stagnant or stationary population growth in India." Explain the statement by giving three reasons.  OR  Explain the objectives of the national youth policy adopted by the Government of India in 2014.	3
	SECTION-D	
24	"Unlike nomadic herding, commercial livestock rearing is more organised and capital intensive". Substantiate the given statement by giving any five reasons.  OR	5
	"Mining plays a key role in human development." Discuss the methods of mining and how its impacts vary between developed and developing nations.	

Differentiate between "Hou Manufacturing".			cturing and S	mall-Scale	5
	C	)R			
Major concentrations of monumbers of places. Explain			lourished in	a few	
"Human beings pollute the Explain the main causes of and agricultural activities.	_		_		5
	OR				
Why is the urban waste disp		serious proble	em in India?	Explain	
willy is the droan waste disp	Josai being a	i serious prook	om maa.	Explain.	
Study the table showing the 2015-2021 and answer the o	-	n of India's ex	ports since		5
2013-2021 and answer the C	-	_			
		(Pe	ercentage shar	re in Exports)	
Commodities	2015-16	2016-17	2020-21	2021-22	
Agriculture and allied products	12.6	12.3	14.3	11.9	
Ore and Minerals	1.6	1.9	3.2	2.0	
Manufactured goods	72.9	73.6	71.2	67.8	
Crude and petroleum products	11.9	11.7	9.2	16.4	
		0.5	0.1	1.9	
Other commodities	1.1	0.5	2.1	1.9	
		0.5	2.1	1.9	
Other commodities  Source : Economic Survey 2016-1		0.5	2.1	1.9	
Source : Economic Survey 2016-1	7 and 2022-23		10.		
	7 <i>and 2022-23</i> odities in Inc	dia's internatio	onal trade has		
Source : Economic Survey 2016-1  "The composition of comm undergoing a change over the state of	7 and 2022-23 odities in Inche years." An	dia's internationalyse the state	onal trade has	been	5
Source: Economic Survey 2016-1  "The composition of comm	7 and 2022-23  odities in Inche years." And benefits of t	dia's internationalyse the state	onal trade has	been	5
Source: Economic Survey 2016-1  "The composition of commundergoing a change over the Describe the objectives and	7 and 2022-23  odities in Inche years." And benefits of t	dia's internationalyse the state	onal trade has	been	5

	SECTION-E	
)	On the given political map of the World, seven geographical features have	5
	been marked as A, B, C, D, E, F and G. Identify any five with the help of	
	the following information and write their correct names.	
	A. A Major Airport	
	B. An Area of Nomadic Herding	
	C. An Area of extensive commercial grain farming	
	D.A major sea port	
	E.A shipping canal	
	F. Area of dairy farming	
	G. A terminal railway station	
	The following questions are for Visually Impaired Candidates only in lieu of Question No.29. Answer any five questions out of the following:	
	A. Name the major Airport of chili.	
	B. Name the nomadic herding area of Africa continent.	
	C. Name the area of extensive commercial grain farming in South Africa.	
	D. Name the international airport of USA located near Gulf of Mexico	
	E. Name the shipping canal which connect Pacific Ocean from Atlantic Ocean	
	F. Area of dairy farming located in south of Australia	
	G. Name the western terminal station Australian Continental railway	
)	Locate and label any five of the following geographical features on the	5
	Political Outline map of India with appropriate symbols:	
	A. An important bauxite mine in Odisha.	
	B. Westernmost seaport of India	
	C. An oil refinery in Uttar Pradesh	
	D. The state with lowest population density.	
	E. The state leading in the production of coffee	
	F. An international airport in Punjab.	
	G. An important copper mine in Rajasthan	
	The following questions are for visually impaired students in lieu of	
	Question No.30. Attempt any five.	
	A. Name an important bauxite mine in Odisha.	
	B. Name Westernmost seaport of India	
	C. Name an oil refinery in Uttar Pradesh	
	D. Name the state with lowest population density.	
	E. Name the state leading in the production of coffee	
	F. Name the international airport in Punjab.	
	G. Name an important copper mine in Rajasthan	1
	G. Name an important copper time in Rajastian	

