KENDRIYA VIDYALAYA SANGATHAN MUMBAI REGION

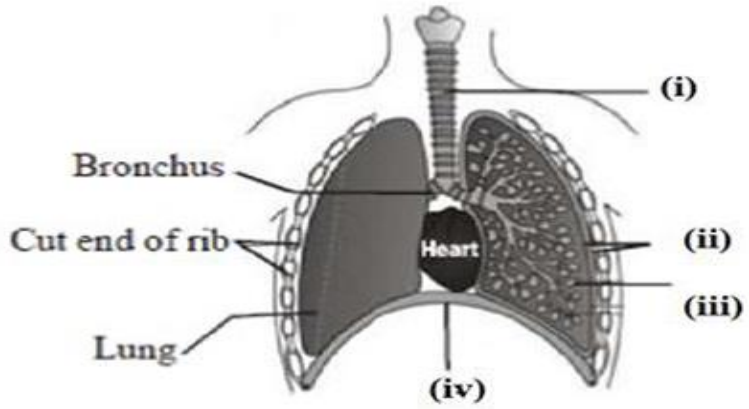
PRE-BOARD I EXAMINATION 2025-26

SCIENCE (086) **Max. Marks: 80**
CLASS- X **Time Allowed: 3 hours**

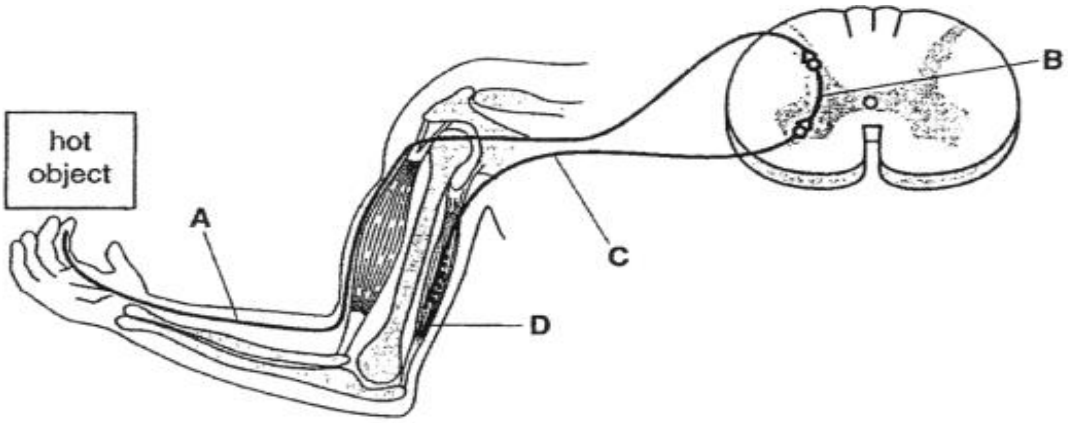
General Instructions:

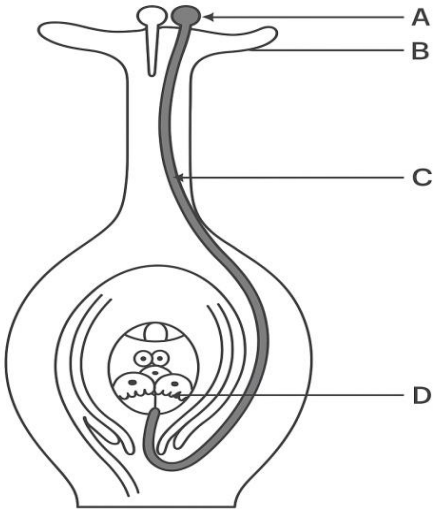
(i) This question paper consists of 39 questions in 3 sections. Section A is Biology, Section B is Chemistry and Section C is Physics.

(ii) All questions are compulsory. However, an internal choice is provided in some questions. A student is expected to attempt only one of these questions.

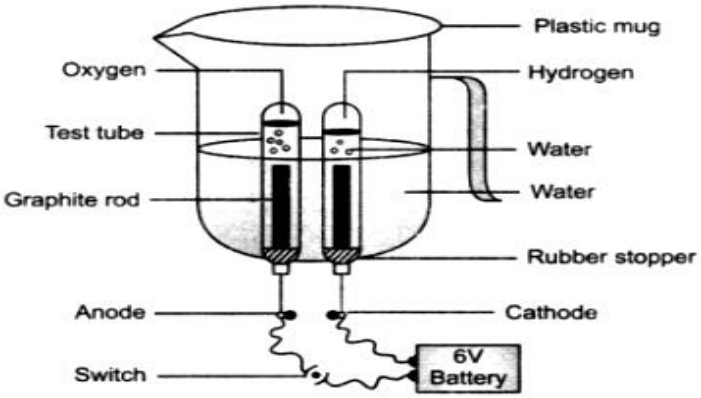
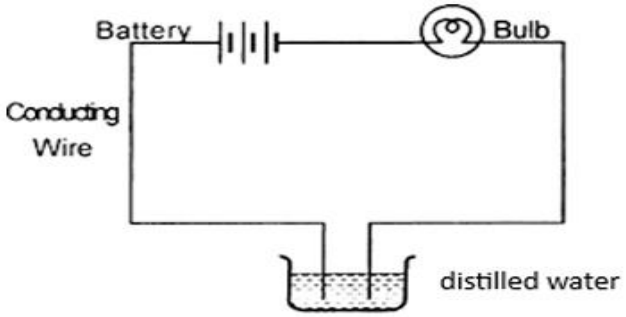
	Section - A	**Marks**
1.	An organism which breaks down the food material outside the body and then absorbs it is (a) A plant parasite, Cuscuta (b) An animal parasite, Tapeworm (c) A bacterium, Rhizobium (d) A fungi, Rhizopus	1
2.	Carefully study the diagram of the human respiratory system with labels (i), (ii), (iii) and (iv). Select the option which gives correct identification and main function and /or characteristic.  (a) Trachea (i): It is supported by bony rings for conducting inspired air. (b) Ribs (ii): When we breathe out, ribs are lifted. (c) Alveoli (iii): Thin-walled sac like structures for exchange of gases. (d) Diaphragm(iv): It is pulled up when we breathe in.	1
3.	There was a cerebellar dysfunction in a patient. Which of the following activities will get disturbed in this patient as a result of this? (a) Salivation (b) Hunger control (c) Posture and balance (d) Regulation of blood pressure	1
4.	Receptors are usually located in sense organs. Gustatory receptors are present in : (a) tongue (b) nose (c) eye (d) ear	1
5.	Height of a plant is regulated by: (a) DNA which is directly influenced by growth hormone. (b) Genes which regulate the proteins directly. (c) Growth hormones under the influence of the enzymes coded by a gene.	1

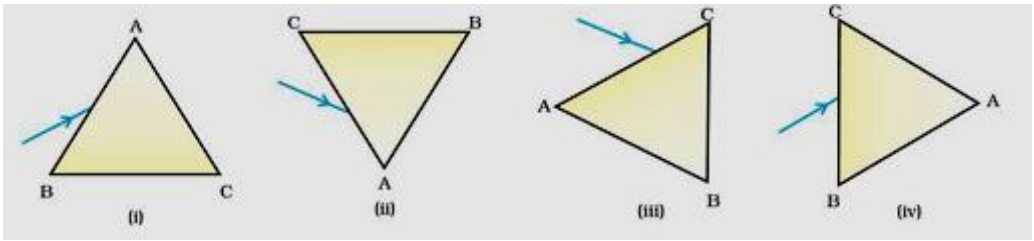
	(d) Growth hormones directly under the influence a gene.	
6.	Identify the food chain in which the organisms of the second trophic level are missing: (a) Grass, goat, lion (b) Zooplankton, phytoplankton, small fish, large fish (c) Tiger, grass, snake, frog (d) Grasshopper, grass, snake, frog, eagle	1
7.	Some wastes are given below: (i) Garden waste (ii) Ball point pen refills (iii) Empty medicine bottles made of glass (iv) Peels of fruits and vegetables (v) Old cotton shirt The non-biodegradable wastes among these are: (a) (i) and (ii) (b) (ii) and (iii) (c) (i), (iv) and (v) (d) (i), (iii) and (iv)	1
	The following two questions consist of two statements – Assertion (A) and Reason (R). Answer these questions by 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.	
8.	**Assertion (A):** Testes lie in penis outside the body. **Reason (R):** Sperms require temperature lower than the body temperature for development.	1
9.	**Assertion (A):** If the lions are removed from a food chain it will not affect the food chain, however if the plants are removed from a food chain it will disturb the ecosystem. **Reason (R):** Plants are producers who can make food using sunlight, while lions are consumers.	1
10.	Name the substances other than water that are reabsorbed during urine formation. What are the two parameters that decide the amount of water that is reabsorbed in the kidney?	2
11.	**<u>Attempt either option A or B</u>.** **A.** List the steps for the synthesis of glucose by the plants. What special feature is found in desert plants related to this process? **OR** **B.** Explain the role of the following enzymes in the process of digestion of food in humans: (i) Salivary amylase (ii) Pepsin (iii) Trypsin (iv) Lipase	2
12.	Study the food chain given below and answer the questions that follow:	2

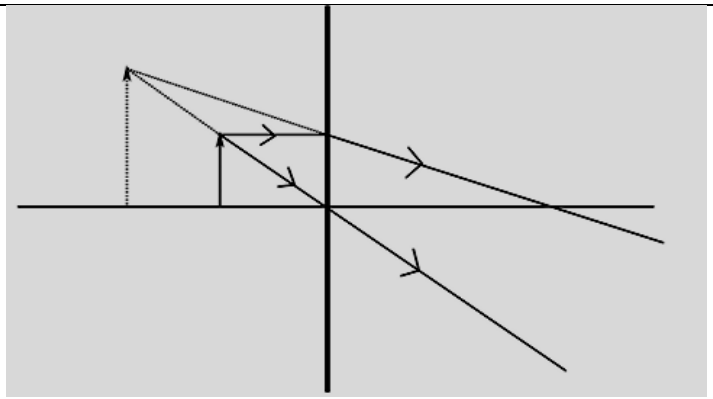
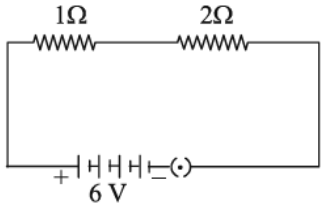
	 a) If the amount of energy available at the third trophic level is 100 joules, then how much energy will be available at the producer level? Justify your answer. b) Is it possible to have 2 more trophic levels in this food chain just before the fourth trophic level? Justify your answer.	
13.	Study the diagram of reflex arc and answer the following questions:  (i) Identify the parts labelled as A, B, C, and D. (ii) Reflex arcs have evolved in animals. Why?	3
14.	Explain the process of breakdown of glucose in a cell.	3
15.	Sahil performed an experiment to study the inheritance pattern of genes. He crossed tall pea plants (TT) with short pea plants (tt) and obtained all tall plants in F1 generation. **<u>Attempt either subpart C or D.</u>** A. What will be set of genes present in the F1 generation? B. Give reason why only tall plants are observed in F1 progeny. C. When F1 plants were self - pollinated, a total of 800 plants were produced. How many of these would be tall, medium height or short plants? Give the genotype of F 2 generation. **OR** D. When F1 plants were cross - pollinated with plants having tt genes, a total of 800 plants were produced. How many of these would be tall, medium height or short plants? Give the genotype of F 2 generation.	4
16.	(a) List two reasons for appearance of variations among the progeny formed by sexual reproduction.	5(2+3)

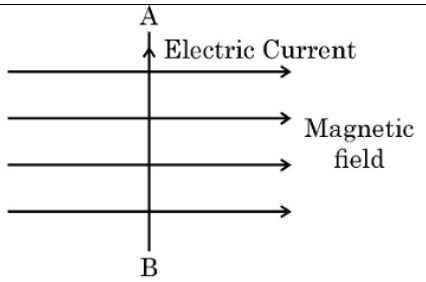
	(b) Study the diagram given below and answer the following questions:  (i) Name the part marked 'A' in the diagram given. (ii) How does 'A' reaches part 'B'? (iii) State the importance of part 'C'. **OR** (a) Certain specialised cells in animals called stem cells have the ability to divide and differentiate into different cell types. This helps in the replacement of a damaged organ. Name and explain two methods of asexual reproduction that are similar to stem cells and occur mostly in multicellular organisms. (b) Identify TWO pairs of reproductive organs in males and females that are functionally similar to each other. Justify.	
	Section – B	
17.	$Zn + 2CH_3COOH \longrightarrow (CH_3COO)_2Zn + H_2$ The above reaction is a (a) Decomposition reaction (b) Displacement reaction (c) Double displacement reaction (d) Combination reaction	1
18.	Four solutions, namely glucose, alcohol, hydrochloric acid and sulphuric acid filled in four separate beakers are connected one by one in an electric circuit with a bulb. The solutions in which the bulb will glow when current is passed are : (a) Glucose and alcohol (b) Alcohol and hydrochloric acid (c) Glucose and sulphuric acid (d) Hydrochloric acid and sulphuric acid	1

19.	Match column I with column II and select the correct option using the given Codes: <table><tr><th>Column I</th><th>Column II</th></tr><tr><td>a. A metal that forms amphoteric oxides</td><td>(i) Ga</td></tr><tr><td>b. A metal which melts when kept on our palm</td><td>(ii) Au</td></tr><tr><td>c. A metal that reacts with nitric acid</td><td>(iii) Al</td></tr><tr><td>d. A metal which cannot displace hydrogen from acids</td><td>(iv) Mn</td></tr></table>(a) a – (ii), b – (i), c – (iii), d – (iv) (b) a – (iii), b – (i), c – (iv), d – (ii) (c) a – (iv), b – (ii), c – (iii), d – (i) (d) a – (iii), b – (ii), c – (i), d – (iv)	1
20.	A metal and a non-metal that exists in liquid state at room temperature are respectively: (a) Bromine and Mercury (b) Mercury and Iodine (c) Mercury and Bromine (d) Iodine and Mercury	1
21.	Anita added a drop each of diluted acetic acid and diluted hydrochloric acid on pH paper and compared the colours. Which of the following is the correct conclusion? (a) pH of acetic acid is more than that of hydrochloric acid. (b) pH of acetic acid is less than that of hydrochloric acid. (c) Acetic acid dissociates completely in aqueous solution. (d) Acetic acid is a strong acid	1
22.	When excess of carbon dioxide is passed through lime water, the milkiness disappears because (a) water soluble calcium carbonate converts to water soluble calcium bicarbonate. (b) insoluble calcium carbonate converts to water soluble calcium bicarbonate. (c) water soluble calcium carbonate converts to insoluble calcium bicarbonate. (d) insoluble calcium carbonate converts to insoluble calcium bicarbonate.	1
23.	The number of single and double bonds present in a molecule of benzene (C_6H_6) respectively, are : (a) 6 and 6 (b) 9 and 3 (c) 3 and 9 (d) 3 and 3	1
	The following question consists of two statements – Assertion (A) and Reason (R). Answer these questions by 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.	
24.	**Assertion(A):** If the first member of a homologous series is Methanal, its third member will be Propanal. **Reason (R):** All the members of a homologous series show similar chemical properties.	1
25.	Explain why we cannot have isomers of first three members of Alkane series?	2

26.	**Attempt either option A or B.** A. Amrita electrolysed distilled water using the set-up shown in figure 1. She was expecting two gases to be evolved at the anode and cathode respectively  Suddenly, she realised that the bulb in the circuit did not glow when she used distilled water (figure 2)  Fig. 2 After this realization, she added a substance to the distilled water for electrolysis to take place. **Answer the following questions based on the information given above:** (i) Which gas was she expecting to be formed at the anode and which one at the cathode respectively? (ii) Why did the bulb not glow when Amrita passed electricity through distilled water? (iii) Which substance was added by Amrita to distilled water to get the expected result? **OR** B. The domes of many building in Europe are made of copper. These domes now appear greenish in colour. (i) Why do the domes appear greenish though copper is orange-red in colour? (ii) In your opinion, should the copper domes be replaced by iron domes to overcome the problem of change of colour of copper domes? (iii) Domes used to be made from thin sheets of metals. Why did the ancient architects use copper to make domes?	3
27.	(i) Suggest a safe procedure of diluting a strong concentrated acid. (ii) Name the salt formed when sulphuric acid is added to sodium hydroxide and write its pH. (iii) Dry HCl gas does not change the colour of dry blue litmus paper. Why?	3

28.	The metals produced by various reduction processes are not very pure. They contain impurities, which must be removed to obtain pure metals. The most widely used method for refining impure metal is electrolytic refining. (i) What is the cathode and anode made of in the refining of copper by this process? (ii) Name the solution used in the above process and write its formula. (iii) How copper gets refined when electric current is passed in the electrolytic cell? **OR** (iii) You have two beakers A and B containing copper sulphate solution. What would you observe after two hours if you dip a strip of zinc in beaker A and a strip of silver in beaker B? Give reasons for your observations in each case.	4
29.	An organic compound 'X' with molecular formula C_2H_6O on reacting with acidified $K_2Cr_2O_7$ gives an organic compound 'Y'. X reacts with Y on warming in the presence of conc. H_2SO_4 to give a sweet smelling compound 'Z'. (i) Identify X, Y and Z. (ii) Write the chemical equations for the reactions involved in both cases. (iii) State the role of – (a) acidified $K_2Cr_2O_7$ in the conversion of X to Y (b) Conc. H_2SO_4 in the reaction of X and Y. (iv) Name the reaction, which occurs when Z reacts with an alkali. **OR** (i) Write the name and structure of an organic compound 'X' having two carbon atoms in its molecule and its name is suffixed with '-ol'. (ii) What happens when 'X' is heated with excess conc. Sulphuric acid at 443 K? Write chemical equation for the reaction stating the conditions for the reaction. Also state the role played by conc. Sulphuric acid in the reaction. (iii) Name and draw the electron dot structure of hydrocarbon produced in the above reaction.	5
	Section – C	
30.	Consider these indices of refraction: glass: 1.52; air: 1.0003; water: 1.333. Based on the refractive indices of three materials, arrange the speed of light through them in decreasing order. (a) The speed of light in water > the speed of light in air > the speed of light in glass. (b) The speed of light in glass > the speed of light in water > the speed of light in air. (c) The speed of light in air > the speed of light in water > the speed of light in glass. (d) The speed of light in glass > the speed of light in air > the speed of light in water.	1
31.	A prism ABC (with BC as base) is placed in different orientations. A narrow beam of white light is incident on the prism as shown in below Figure. In which of the following diagrams, after dispersion, the third colour from the top of the spectrum corresponds tothe colour of the sky?  A. (i) B. (ii) C. (iii) D. (iv)	1

	The following question consists of two statements – Assertion (A) and Reason (R). Answer these questions by 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.	
32.	**Assertion (A):** The rainbow is a natural spectrum of sunlight in the sky. **Reason (R):**Rainbow is formed in the sky when the sun is overhead and water droplets are also present in air.	1
33.	 The above figure shows the formation of an image by a lens shown by a thick line. Analyse the figure and answer the following questions. (i) What is the type of lens used? (ii) What is the nature of the image? (iii) If the image is formed at a distance of 30 cm from the lens and the image is twice the size of the object, then where is the object placed?	2
34.	**<u>Attempt either option A or B.</u>** **A.** Show how you would connect three resistors each of resistance 6 Ω, so that the combination has a resistance of 9 Ω. Also justify your answer. **OR** **B.** In the given circuit calculate the power consumed in watts in the resistor of 2 Ω: 	2
35.	A person is suffering from an eye defect in which the far point of the eye is nearer than infinity. Identify the defect. List two main causes of this defect. Draw a ray diagram to show how this defect is corrected by using a suitable lens.	3
36.	(a) State Fleming's left hand rule. Apply this rule to determine the direction of force experienced by a straight current carrying conductor AB placed in a uniform magnetic field as shown.	3

	 (b) What will happen to an electron that enters in the same magnetic field in the same direction in which the current is flowing in the conductor AB? Give reason to justify your answer.	
37.	What is a solenoid? When does a solenoid behave as a magnet? Draw the pattern of the magnetic field produced inside it showing the directions of the magnetic field lines.	3
38.	A highly polished surface such as a mirror reflects most of the light falling on it. In our daily life, we use two types of mirrors plane and spherical. The reflecting surface of spherical mirrors may be curved inwards or outwards. In concave mirrors, reflection takes place from the inner surface, while in convex mirrors reflection takes place from the outer surface. (a) Define the principal focus of a concave mirror. (b) A ray of light is incident on a concave mirror, parallel to its principal axis. If this ray after reflection from the mirror passes through the principal axis from a point at a distance of 10 cm from the pole of the mirror, find the radius of curvature of the mirror. (c) An object is placed at a distance of 10 cm from the pole of a convex mirror of focal length 15 cm. Find the position of the image. **OR** (c) A mirror forms a virtual, erect and diminished image of an object. Identify the type of this mirror. Draw a ray diagram to show the image formation in this case.	4
39.	(a) Define electric power and state its SI unit. The commercial unit of electrical energy is known as 'unit'. Write the relation between this 'unit' and joule. (b) In a house, 2 bulbs of 50 W each are used for 6 hours daily and an electric geyser of 1 kW is used for 1 hour daily. Calculate the total energy consumed in a month of 30 days and its cost at the rate of ₹8.00 per kWh. **OR** (a) Draw a schematic diagram of a circuit consisting of a battery of four dry cells of 1.5 V each, a 2 Ω resistor, a 6 Ω resistor, a 16 Ω resistor and a plug key all connected in series. Put an ammeter to measure the current in the circuit and a voltmeter across the 16 Ω resistor to measure the potential difference across its two ends. Use Ohm's law to determine: (i) ammeter reading, and (ii) voltmeter reading when the key is closed. (b) A 4 Ω resistance wire is doubled on it. Calculate the new resistance of the wire.	5

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केन्द्रीय विद्यालय संगठन (मुंबई संभाग)

KENDRIYA VIDYALAYA SANGATHAN (MUMBAI REGION)
PRE-BOARD-1 EXAMINATION(2025-26)

कक्षा: दसवीं **अधिकतम अंक: 80**

विषय: सामाजिक विज्ञान (087) **अधिकतम समय :3.00 घंटे**

CLASS: X **Time Allowed: 3.00 Hrs.**
SUBJECT: SOCIAL SCIENCE (087) **Max.** Marks: 80

सामान्य निर्देशः

1. प्रश्न पत्र में कुल 38 प्रश्न हैं। सभी प्रश्न अनिवार्य हैं।
2. प्रश्न पत्र चार खंडों में विभाजित है खंड कः इतिहास, खंड खः भूगोल, खंड गः राजनीतिक विज्ञान, और खंड घः अर्थशास्त्र
3. प्रत्येक खंड 20 अंकों का है और इसमें बहुविकल्पीय प्रश्न (MCQs), अति लघु उत्तरीय प्रश्न (VSA), लघु उत्तरीय प्रश्न (SA), दीर्घ उत्तरीय प्रश्न (LA) और केस आधारित प्रश्न (CBQ) शामिल हैं।
4. अति लघु उत्तरीय प्रश्न (VSA) प्रत्येक 2 अंक के हैं। प्रत्येक प्रश्न का उत्तर 40 शब्दों से अधिक नहीं होना चाहिए।
5. लघु उत्तरीय प्रश्न (SA) प्रत्येक 3 अंक के हैं। प्रत्येक प्रश्न का उत्तर 60 शब्दों से अधिक नहीं होना चाहिए।
6. दीर्घ उत्तरीय प्रश्न्न (LA) प्रत्येक 5 अंक के हैं। प्रत्येक प्रश्न का उत्तर 120 शब्दों में अधिक नहीं होना चाहिए।
7 केस आधारित प्रश्न्न (CBQ) में तीन उप-प्रश्न हैं और ये प्रत्येक 4 अंक के हैं। प्रत्येक प्रश्न का उत्तर 100 शब्दों से अधिक नहीं होना पाहिए।
8. मानचित्र आधारित प्रश्न 5 अंक के हैं, जिसमें दो भाग होते हैं खंड क (इतिहास) में प्रश्न 9 (2 अंक) और खंड ब (भूगोल) में प्रश्न 17 (3 अंक)।
9. प्रश्न पत्र में समग्र विकल्प नहीं दिया गया है। हालांकि, कुछ प्रश्नों में आंतरिक विकल्प प्रदान किए गए हैं। ऐसे प्रश्नों में केवल एक विकल्प का ही उत्तर देना अनिवार्य है।

General Instructions:
1. There are 38 questions in the Question paper. All questions are compulsory.
2. The question paper has Four Sections - A-History, B-Geography C- Political Science, and D-Economics.
3. Each Section is of 20 Marks and has MCQs, VSA, SA, LAs and CBQ.
4. Very Short Answer Type Questions (VSA), carry 2 marks each. Answers to each question should not exceed 40 words.
5. Short Answer Type Questions (SA), carry 3 marks each. Answers to each question should not exceed 60 words.
6. Long answer type questions (LA), carry 5 marks each. Answers to each question should not exceed 120 words.
7. There are case based questions (CBQ) with three sub questions and are of 4 marks each. Answers to each question should not exceed 100 words.
8. The map-based questions carry 5 marks with two parts-Q9. In Section A-History (2 marks) and Q17. In Section B-Geography (3 marks)
9. 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 must be attempted.

SECTION: A
HISTORY (20 Marks)

1. **निम्नलिखित का मिलान करें और सही विकल्प चुनें:** 1

नेता	Role
A. विक्टर इमैनुएल II	I. इटली के मुख्यमंत्री
B. ग्यूसेप माज़िनी	II. युवा इटली आंदोलन
C. ग्यूसेप गैरीबाल्डी	III. सिसिली साम्राज्य पर विजय प्राप्त की
D. काउंट कावौर	IV. एकीकृत इटली का राजा घोषित किया गया

विकल्प:

(a) A-I, B-IV, C-III, D-II (b) A-II,B-I, C-IV, D-III
(c) A-IV, B-II, C-III, D-I (d) A-I, B-IV, C-II, D-III

Match the following and choose the correct option:

Leader	Role
A. Victor Emmanuel II	I. Chief Minister of Italy
B. Giuseppe Mazzini	II. Young Italy Movement
C. Giuseppe Garibaldi	III. Conquered the Kingdom of Sicily
D. Count Cavour	IV. Proclaimed as King of Unified Italy

Options:

(a) A-I, B-IV, C-III, D-II (b) A-II,B-I, C-IV, D-III
(c) A-IV, B-II, C-III, D-I (d) A-I, B-IV, C-II, D-III

2. नीचे दी गई छवि के बारे में सही कथन चुनें। 1



(A) यह चित्र कलाकार लोरेंज क्लासेन द्वारा चित्रित किया गया था।
(B) यह चित्र कलाकार जूलियस ह्यूबनर द्वारा चित्रित किया गया था।
(C) इस चित्र का शीर्षक "जर्मनिया गार्डिंग द राइन" था।
(D) फिलिप वीट, वह कलाकार थे जिन्होंने यह चित्र बनाया था।

Choose the correct statement about the image given bellow.
(A) This image was painted by artist Lorenz Clasen.
(B) This image was painted by artist Julius Hübner
(C) Germania guarding the Rhine was the title of this painting.
(D) Philip Veit, was the artist who have made this painting.

3.	कथन (A): गांधीजी के 'सत्याग्रह' केविचार ने सत्य की शक्ति और सत्य की खोज की आवश्यकता पर जोर दिया। कारण (R): गांधीजी का मानना था कि एक सत्याग्रही उत्पीड़क की अंतरात्मा की आवाज़ पर अपील करके लड़ाई नहीं जीत सकता है। (A) (A) और (R) दोनों सत्य हैं और (R), (A) का सही स्पश्टीकरण है। (B) (A) और (R) दोनों सत्य हैं लेकिन (R), (A) का सही स्पश्टीकरण नहीं है। (C) (A) सत्य है लेकिन (R) असत्य है। (D) (A) असत्य है और (R) सत्य है| **Assertion (A) :** Gandhiji's idea of satyagraha emphasised on the power of truth and the need to search for truth. **Reason (R) :** Gandhiji believed that a satyagrahi could win the battle by appealing to the conscience of the oppressor. Select the correct option from the given alternatives. (A) Both A and R is true and R is the correct explanation of A (B) Both A and R is true and 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
4	भारत में पहली प्रिंटिंग प्रेस किसने शुरू की ? (A) ईस्ट इंडिया कंपनी (B) अरबी व्यापारी (C) पोर्तगाली (D) इन में से कोई नहीं Who among the following started the first printing press in India? (A) East India Company (B) Arab traders (C) Portuguese (D) None of these	1
5A 5B	19 वीं सदी में यूरोपीय लोग अमेरिका क्यों भाग गए ? दो कारण बताइए। **अथवा** रेशम मार्ग ने दुनिया को कैसे जोड़ा ? Why did Europeans flee to America in the 19th Century? Give two reasons. **OR** How did silk route link the world?	2
6A 6B	कुछ लोग आसानी से उपलब्ध मुद्रित पुस्तकों के प्रभाव से क्यों डरते थे? यूरोप से एक और भारत से एक उदाहरण चुनिए। **अथवा** संक्षेप में बताइए कि मुद्रण संस्कृति ने भारत में राष्ट्रवाद के विकास में किस प्रकार सहायता की। (A) Why did some people fear the effect of easily available printed books? Choose one example from Europe and one from India. **OR** (B) Explain in brief how print culture assisted the growth of nationalism in India.	3

7A 7B	इटली और जर्मनी के एकीकरण की प्रक्रिया के बीच किन्हीं चार असमानताओं का वर्णन कीजिए। **अथवा** ब्रिटेन में राष्ट्र-राज्य का गठन शेष यूरोप से किस प्रकार भिन्न था? चर्चा कीजिए। Describe any four dissimilarities between the process of unification of Italy and Germany. **OR** How was the formation of nation-state in Britain different from that of rest of the Europe ? Discuss.	5
8	**दिए गए पाठ को पढ़ें और निम्नलिखित प्रश्नों के उत्तर दें:** सामूहिक जुड़ाव की भावना आंशिक रूप से एक जुट संघर्षों के अनुभव से आई।लेकिन कई सांस्कृतिक प्रक्रियाएँ भी थीं जिनके माध्यम से राष्ट्रवाद ने लोगों की कल्पना पर कब्ज़ा किया।इतिहास और कल्पना, लोक कथाएँ और गीत, लोकप्रिय प्रिंट और प्रतीक, सभी ने राष्ट्रवाद के निर्माण में भूमिका निभाई।राष्ट्र की पहचान अक्सर किसी आकृति या छवि के माध्यम से दर्शाई जाती है।इस से एक ऐसी छवि बनाने में मदद मिलती है जिससे लोग राष्ट्र की पहचान कर सकें।बीसवीं सदी में, राष्ट्रवाद के विकास के साथ, भारत की पहचान भारत माता की छवि के साथ दृष्टिगत रूप से जुड़ गई।इस छवि का निर्माण सबसे पहले बंकिम चंद्रचट्टोपाध्याय ने किया था। 1870 के दशक में उन्होंने मातृभूमि के लिए एक भजन के रूपमें 'वंदेमातरम' लिखा।बाद में इसे उनके उपन्यास आनंद मठ में शामिल किया गया और बंगाल में स्वदेशी आंदोलन के दौरान इसे व्यापक रूप से गाया गया ।स्वदेशी आंदोलन से प्रेरित होकर, अवनींद्रनाथ टैगोर ने भारतमाता की अपनी प्रसिद्धछ विबनाई।इस चित्र में भारतमाता को एक तपस्वी के रूप में चित्रित किया गया है; वह शांत, संयमित, दिव्य और आध्यात्मिक हैं। **निम्नलिखित प्रश्नों के उत्तर दीजिए।** **(1+1+2)** 8.1. बंगाल में स्वदेशी आंदोलन के दौरान मातृभूमि के लिए कौन सा भजन व्यापक रूप से गाया गया था? 8.2. किसी आकृति या छवि में भारत की पहचान का प्रतीक क्या था? 8.3. विभिन्न समुदायों, क्षेत्रों या भाषा के लोगों में सामूहिक जुड़ाव की भावना कैसे विकसित हुई? **Read the given text and answer the following questions:** The sense of collective belonging came partly through the experience of united struggles. But there were also a variety of cultural processes through which nationalism captured people's imagination. History and fiction, folklore and songs, popular prints and symbols, all played a part in the making of nationalism. The identity of the nation is most often symbolised in a figure or image. This helps create an image with which people can identify the nation. It was in the twentieth century, with the growth of nationalism, that the identity of India came to be visually associated with the image of Bharat Mata. The image was first created by Bankim Chandra Chattopadhyay. In the 1870s he wrote 'VandeMataram' as a hymn to the motherland. Later it was included in his novel Anand math and widely sung during the Swadeshi movement in Bengal. Moved by the Swadeshi movement, Abanindranath Tagore painted his famous image of Bharat Mata. In this painting Bharat Mata is portrayed as an ascetic figure; she is calm, composed, divine and spiritual.	4

	Answer the followings questions. 8.1. Which hymn to the mother land was widely sung during Swadeshi movements in Bengal? 8.2. How did the identity of India symbolise in a figure or image? 8.3. How did people of different communities, regions or language develop a sense of collective belonging?	
9	(मानचित्र कौशल आधारित प्रश्न) दिए गए भारत के रेखामान चित्र पर दो स्थान A और B अंकित हैं।उन्हें पहचानिए और उनके पास खींची गई रेखाओं पर उनके सही नाम लिखिए। A. वह स्थान जहाँ सविनय अवज्ञा आंदोलन हुआ था। B. वर्ष 1927 में इसी स्थान पर भारतीय राष्ट्रीय कांग्रेस का अधिवेशन हुआ था। (Map Skill-Based Question) Two places A and B have been marked on the given outline map of India. Identify them and write their correct names on the lines drawn near them. A. The place where the civil disobedience movement took place. B. Indian National Congress Session was held at this place in the year 1927.	2

SECTION: B
GEOGRAPHY (20 Marks)

10	नीचे दिए गए स्रोत को पढ़ें और उस के बाद दिए गए प्रश्नों के उत्तर दें: जून 1992 में, ब्राज़ील के रियो-डी-जेनेरियो में 100 से अधिक राष्ट्राध्यक्ष पहले अंतर्राष्ट्रीय पृथ्वी शिखर सम्मेलन के लिए एकत्र हुए।यह शिखर सम्मेलन वैश्विक स्तर पर पर्यावरण संरक्षणऔर सामाजिक-आर्थिक विकास की तात्कालिक समस्याओं के समाधान के लिए आयोजित किया गया था।एकत्रित नेताओं ने वैश्विक जल वायु परिवर्तन और जैविक विविधता पर घोषणा पत्र पर हस्ताक्षर किए।रियो सम्मेलन ने वैश्विक वनसिद्धांतों का समर्थन किया और 21वीं सदी में सतत विकास प्राप्त करने के लिए एजेंडा 21 को अपनाया। पर्यावरण को नुकसान पहुँचाए बिना और भावीपीढ़ियों की ज़रूरतों से समझौता किए बिना विकास प्राप्त करने के लिए प्रयुक्त शब्द है: (A) सामाजिक-आर्थिकविकास (B) एजेंडा 21 (C) वैश्विकपर्यावरणीयविकास (D) सततविकास Read the source given below and answer the questions that follows: In June 1992, more than 100 heads of states met in Rio-de-Janeiro in Brazil, for the first international Earth Summit. The summit was convened for addressing urgent problems of environmental protection and socio-economic development at the global level. The assembled leaders signed the Declaration on Global Climatic Change and Biological Diversity. The Rio Convention endorsed the global Forest Principles and adopted Agenda 21 for achieving Sustainable Development in the 21st	1

	century. The term used to achieve development without damaging the environment and without compromising with the needs of the future generations is: (A) Socio-economic development (B) Agenda 21 (C) Global environmental development (D) Sustainable development	
11	निम्नलिखित तालिका को सही जानकारी से पूरा करें। कौन से अधिनियम के तहत शेष लुप्तप्राय प्रजातियों और उनके आवास की रक्षा करना भारतीय संसद द्वारा पारित किया गया था। सही विकल्प चुनें: (A) वन्यजीव संरक्षण अधिनियम -1972 (B) वन्यजीव सुरक्षा अधिनियम - 1952 (C) वन्यजीव संरक्षण अधिनियम - 1962 (D) वन्यजीव सुरक्षा अधिनियम- 1982 Complete the following table with correct information which Act Aims To protect the remaining endangered species and their habitat. Passed by Indian Parliament Choose correct option : (A) Wildlife Protection Act - 1972 (B) Wildlife Security Act- 1952 (C) Wildlife Protection Act - 1962 (D) Wildlife Security Act- 1982	1
12	निम्नलिखित में से किस संरक्षण रणनीति में सीधे तौर पर सामुदायिक भागीदारी शामिल नहीं है? (A) संयुक्त वन प्रबंधन (B) बीज बचाओ आंदोलन (C) चिपको आंदोलन (D) वन्यजीव अभयारण्यों का सीमांकन Which of the following conservation strategies do not directly involve community participation? (A) Joint forest management (B) Beej Bachao Andolan (C) Chipko Movement (D) Demarcation of Wildlife sanctuaries	1
13	किस फसल को " सुनहरी रेशा " के रूप में जाना जाता है? इस फसल की खेती के लिए आवश्यक दो भौगोलिक स्थितियों की व्याख्या करें| Which crop is known as the “Golden fibre” Explain two geographical conditions essential for the cultivation of this crop.	2
14	(A) भारत में हरितक्रांति के लिए उत्तरदायी विभिन्न तकनीकी और संस्थागत सुधारों का वर्णन कीजिए। **अथवा** (B) भारत के तीन फसल मौसमों का वर्णन कीजिए। (A) Describe various technological and institutional reforms which led to the Green Revolution in India. **OR** (B) Describe the three cropping seasons of India.	3

15	(A) हुगली नदी के किनारे जूट मिलों के संकेन्द्रण के लिएउ त्तरदायी मुख्य कारकों की व्याख्या कीजिए। **अथवा** (B) चीनी मिलें भारत के दक्षिणी और पश्चिमी राज्यों में क्यों स्थानांतरित और संकेन्द्रित हो रही हैं? कारण बताइए। (A) Explain the main factors which are responsible for the concentration of jute mills along the banks of Hugli River. **OR** (B) Why are sugar mills shifting and concentrating in southern and western State of India? Give reasons.	5
16	दिए गए स्रोत को पढ़ें और निम्नलिखित प्रश्नों के उत्तर दें| (1+1+2) मृदा आवरण का क्षरण और उसके बाद मिट्टी का नीचे बह जाना मृदा अपरदन कहलाता है।मृदा निर्माण और अपरदन की प्रक्रियाएँ साथ-साथ चलती हैं और आमतौर पर दोनों के बीच एक संतुलन बना रहता है ।कभी-कभी, यह संतुलन मानवीय गतिविधियों जैसे वनों की कटाई, अति-चारण, निर्माण और खनन आदि के कारण बिगड़ जाता है, जब कि हवा, हिमनद और पानी जैसी प्राकृतिक शक्तियाँ मृदा अपरदन का कारण बनती हैं।बहता पानी चिकनी मिट्टी को चीरता हुआ गहरी नालियाँ बना देता है।यह भूमि खेती के लिए अनुपयुक्त हो जाती है और इसे बंजर भूमि कहा जाता है । चंबल बेसिन में ऐसी भूमि को खड्डक हा जाता है । कभी-कभी पानी ढलान से नीचे बड़े क्षेत्रों में चादर के रूप में बहता है।ऐसे मामलों में ऊपरी मिट्टी बह जाती है।इसे चादर अपरदन कहा जाता है।हवा समतल या ढलान वाली भूमि से ढीली मिट्टी उड़ा ले जाती है जिसे पवन अपरदन कहा जाता है । खेती के दोषपूर्ण तरीकों के कारण भी मृदा अपरदन होता है ।गलत तरीके से जुताई करने से, यानी ढलान पर ऊपर-नीचे जुताई करने से पानी के तेज बहाव के लिए नालियाँ बन जाती हैं जिस से मृदा अपरदन होता है।समोच्च रेखाओं के साथ जुताई करने से ढलान से नीचे पानी का प्रवाह धीमा हो सकता है।इसे समोच्च जुताई कहते हैं।आश्रय बनाने के लिए पेड़ों की कतारें लगाना भी इसी तरह काम करता है।ऐसे पेड़ों की कतारों को आश्रय पट्टियाँ कहते हैं।इन आश्रय पट्टियोंने रेत के टीलों को स्थिर करने और पश्चिमी भारत के रेगिस्तान को स्थिर करने में महत्वपूर्ण योगदान दिया है। 16.1 मानवीय गति विधियों के कारण मृदा निर्माण और अपरदन का संतुलन बिगड़ जाता है।इस कथन की पुष्टि के लिए एक उदाहरण दीजिए। 16.2 मृदा संरक्षण क्या है? 16.3 अवनालिका अपरदन और परत अपरदन में अंतर बताइए। **Read the given source and answer the questions that follow:**	4

	The denudation of the soil cover and subsequent washing down is described as soil erosion. The processes of soil formation and erosion go on simultaneously and generally there is a balance between the two. Sometimes, this balance is disturbed due to human activities like deforestation, over-grazing, construction and mining etc., while natural forces like wind, glacier and water lead to soil erosion. The running water cuts through the clayey soils and makes deep channels as gullies. The land becomes unfit for cultivation and is known as bad land. In the Chambal basin such lands are called ravines. Sometimes water flows as a sheet over large areas down a slope. In such cases the top soil is washed away. This is known as sheet erosion. Wind blows loose soil off flat or sloping land known as wind erosion. Soil erosion is also caused due to defective methods of farming. Ploughing in a wrong way i.e. up and down the slope form channels for the quick flow of water leading to soil erosion. Ploughing along the contour lines can decelerate the flow of water down the slopes. This is called contour ploughing. Planting lines of trees to create shelter also works in a similar way. Rows of such trees are called shelter belts. These shelter belts have contributed significantly to the stabilisation of sand dunes and in stabilising the desert in western India. 16.1. The balance of soil formation and erosion is disturbed due to human activities. Give one example to prove the statement. 16.2.What is soil conservation. 16.3 Differentiate between gully erosion and sheet erosion.	
17	भारत के उसी रेखामान चित्र पर निम्नलिखित में से किन्हीं तीन को उपयुक्त प्रतीकों से चिह्नित कीजिए। i. नागार्जुन सागर बांध ii. पारादीप बंदरगाह iii. मुंबई सॉफ्टवेयर टेक्नोलॉजी पार्क iv. राजा-सांसी अंतर्राष्ट्रीय हवाईअड्डा v. बोकारो- लौह एवं इस्पात संयंत्र On the same outline map of India locate and label any three of the following with suitable symbols. i.NagarjunaSagar dam ii. Paradip port iii.Mumbai Software Technology Park iv. Raja-Sansi International Airport v. Bokaro – Iron and steel plant	3
18	**SECTION: A** **POLITICAL SCIENCE (20 Marks)** निम्नलिखित को सही क्रम में व्यवस्थित करें: (i) सिंहल को आधिकारिक भाषा के रूप में मान्यता देने के लिए एक अधिनियम पारित किया गया। (ii) श्रीलंका एक स्वतंत्र देश के रूप में उभरा। (iii) गृह युद्ध छिड़ गया। (iv) एक स्वतंत्र तमिल राज्य की मांग को लेकर कई राजनीतिक दल बनाए गए: (A) (i),(ii),(iv),(iii) (B) (ii),(i),(iv),(iii) (C) (ii),(i),(iii),(iv) (D) (i),(ii),(iii),(iv)	1

	Arrange the following in the correct sequence: (i) An act was passed to recognise Sinhala as the official language. (ii) Sri Lanka emerged as an independent country. (iii) A civil war broken out (iv) Several political parties were formed demanding an independent Tamil state: (A) (i),(ii),(iv),(iii) (B) (ii),(i),(iv),(iii) (C) (ii),(i),(iii),(iv) (D) (i),(ii),(iii),(iv)	
19	अभिकथन (A) : बेल्जियम में सत्ता विभिन्न सामाजिक समूहों के बीच साझा की जाती है। कारण (R): बेल्जियम में सामुदायिक सरकार के पास सांस्कृतिक, शैक्षिक और भाषा संबंधी मुद्दों परअधिकार है। (A) (A) और (R) दोनों सत्य हैं, लेकिन (R), (A) की सही व्याख्या नहीं है। (B) (A) और (R) दोनों सत्य हैं और (R), (A) की सही व्याख्या है। (C) (A) असत्य है, लेकिन (R) सत्य है। (D) (A) सत्य है, लेकिन (R) असत्य है। **Assertion (A) :** Power is shared among different social groups in Belgium. **Reason (R) :** Community Government in Belgium has the power regarding cultural, educational and language related issue. (A) Both A and R are true, but R is not the correct explanation of A. (B) Both A and R are true and R is the correct explanation of A. (C) A is false, but R is true. (D) A is true, but R is false.	1
20	___ने एकात्मक शासन प्रणाली से संघीय शासन प्रणाली में परिवर्तन किया। (A) श्रीलंका (B) बेल्जियम (C) बेल्जियम और श्रीलंका दोनों (D) उपरोक्त में से कोई नहीं ___made the shift from a unitary to a federal system of government. (A) Sri Lanka (B) Belgium (C) Both Belgium and Sri Lanka (D) None of the above	1
21	निम्नलिखित में से कौन संघ सूची में शामिल हैं? (A) बैंकिंग (B) विदेश मामले (C) देश की रक्षा (D) उपरोक्त सभी Which of the following are included in the Union List? (A) Banking (B) Foreign Affairs (C) Defence of the country (D) All of the above	1

22	_____ का समान पारिश्रमिक अधिनियम यह प्रावधान करता है कि समान कार्य के लिए समान वेतन का भुगतान किया जाना चाहिए। (A) 1986 (B) 1976 (C)1966 (D) 1972 The Equal Remuneration Act of _____ provides that equal wages should be paid to equal work. (A) 1986 (B) 1976 (C) 1966 (D) 1972	1
23	**निम्नलिखित का मिलान करें और सही विकल्प चुनें:** **List I** / **List II** 1. कांग्रेस पार्टी — A. राष्ट्रिय जनता दल गठबंधन 2. भारतीय जनता पार्टी — B. राज्य पक्ष 3. भारत की कम्युनिस्ट पार्टी (मार्क्सवादी) — C. संयुक्त प्रगतिशील गठबंधन 4. तेलुगु देशम पार्टी — D. लेफ्ट फ्रंट (A) 1-C, 2-A, 3-B, 4-D (B) 1-C,2-D, 3-A, 4-B (C) 1-C, 2-A, 3-D, 4-B (D) 1-D, 2-C, 3-A, 4-B Match the following and choose the correct option: **List I** / **List II** 1. Congress Party — A. National Democratic Alliance 2. Bharatiya Janata Party — B. State Party 3. Communist Party of India (Marxist) — C. United Progressive Alliance 4. Telugu Desam Party — D. Left Front (A) 1-C, 2-A, 3-B, 4-D (B) 1-C,2-D, 3-A, 4-B (C) 1-C, 2-A, 3-D, 4-B (D) 1-D, 2-C, 3-A, 4-B	1
24	नीचे दो कथन दिए गए हैं।वे अभिकथन (A) और कारण (R) हैं। दोनों कथनों को पढ़ें और सही विकल्प चुनें। **अभिकथन (A):** लोकतंत्र केवल बहुमत की राय से शासन नहीं है। **कारण (R):** लोकतंत्र में, बहुमत को हमेशा अल्पमत के साथ मिलकर काम करना पड़ता है ताकि सरकारें आम राय का प्रतिनिधित्व करने के लिए कार्य कर सकें। विकल्प: (A) (A) सत्य है, लेकिन (R) असत्य है। (B) (A) असत्य है, लेकिन (R) सत्य है। (C) (A) और (R) दोनों सत्य हैं और (R), (A) की सही व्याख्या है। (D) (A) और (R) दोनों सत्य हैं, लेकिन (R), (A) की सही व्याख्या नहीं है।	1

	Two statements are given below. They are Assertion (A) and Reason (R). Read both the statements and choose the correct option. **Assertion (A):** Democracy is not simply a rule by majority of opinion. **Reason (R):** In a democracy, majority always need to work with the minority so that governments can function to represent the general view.. Options: (A) (A) is true, but (R) is false. (B) (A) is false, but (R) is true. (C)Both (A) and (R) are true and (R) is the correct explanation of (A) (D)Both (A) and (R) are true, but (R) is not the correct explanation of (A).	
25	लोकतंत्रों के संदर्भ में, निम्नलिखित में से कौन सा विचार सही है कि लोकतंत्र ने सफलतापूर्वक समाप्त कर दिया है (A) लोगों के बीच संघर्ष (B) लोगों के बीच आर्थिक असमानताएँ (C) हाशिए के वर्गों के साथ कैसे व्यवहार किया जाना चाहिए इस बारे मे सारे मतभेद मिटा दिये गये है| (D) राजनीतिक असमानता का विचार In the context of democracies, which of the following ideas is correct democracies have successfully eliminated (A) Conflicts among people (B) Economic inequalities among people (C) Differences of opinion about how marginalised sections are to be treated (D) The idea of political inequality	1
26	A) संघवाद को एक साथ लाने और उसे बनाए रखने के बीच कोई दो प्रमुख अंतर बताइए। **अथवा** (B) संघवाद की कोई दो महत्वपूर्ण विशेषताएँ बताइए। (A) State any two major distinctions between coming together and holding together federations. **OR** (B) State any two important features of Federalism	2
27	तानाशाही या किसी अन्य विकल्प की तुलना में लोकतंत्र सरकार का बेहतर रूप है? Democracy is better form of government when compared with dictatorship or any other alternative ?	2

28	भारत को एक धर्मनिरपेक्ष राज्य बनाने वाले किसी भी तीन संवैधानिक प्रावधानों का उल्लेख कीजिए? Mention any three constitutional provisions that make India a secular state?	3
29	(A) "वंशवादी उत्तराधिकार राजनीतिक दलों के सामने सबसे गंभीर चुनौतियों में से एक है।" इस कथन का परीक्षण कीजिए। **अथवा** राजनीतिक पार्टियों ने लोकतंत्र के प्रभावी संचालन में महत्वपूर्ण भूमिका निभाई। समझाइए। "Dynastic succession is one of the most serious challenges before the political parties." Examine the statement. OR Political parties played a significant role in the effective working of democracy? Explain.	5
30	**SECTION: D** **ECONOMICS (20 Marks)** **निम्नलिखित देशों में से किसका मानव विकास सूचकांक स्कोर उच्च है?** (A) पाकिस्तान (B) म्यांमार (C) भारत (D) नेपाल Which one of the following countries has a high Human Development Index score? Pakistan (B) Myanmar (C) India (D) Nepal	1
31	दिए गए चित्र का अध्ययन करें Study the given picture.  चित्र में किया गया कार्य अर्थव्यवस्था के निम्नलिखित में से किस क्षेत्र के अंतर्गत आता है? (A) प्राथमिक (B)द्वितीयक (C) सार्वजनिक (D) निजी The work done in the picture comes under which one of the following sectors of the economy? (A) Primary (B) Secondary (C) Public (D) Private	1

32	राहुल के पास अतिरिक्त धन है, इसलिए वह एक बैंक खाता खोलता है और उसमें जमा करता है। जब भी उसे धन की आवश्यकता होती है, वह अपने बैंक जाकर वहाँ से धन निकाल सकता है।बैंकों में इस प्रकार की जमा राशि को_____ कहते हैं। (A) अतिरिक्त जमा (B) सावधि जमा (C) माँग जमा (D) सावधि जमा Rahul has surplus money, so he opens a bank account and deposits in it. Whenever he needs money, he can go to his bank and withdraw from there. This kind of deposit with the banks is known as _____. (A) Surplus Deposit (B) Term Deposit (C) Demand Deposit. (D) Fixed Deposit	1
33	वैश्वीकरण के लिए अंतर्राष्ट्रीय व्यापार समझौते क्यों महत्वपूर्ण हैं? (A) ये व्यापार बाधाओं को बढ़ाते हैं (B) ये सीमा-पार व्यापार नियमों को सरल बनाते हैं (C) ये देशों के बीच वस्तुओं के प्रवाह को सीमित करते हैं (D) ये विदेशी निवेश को हतोत्साहित करते हैं Why are international trade agreements important for globalization? (A) They increase trade barriers (B) They simplify cross-border trade regulations (C) They limit the flow of goods between countries (D) They discourage foreign investments	1
34	वैश्वीकरण में बहुराष्ट्रीय निगमों (एमएनसी) की क्या भूमिका है? (A) वे सीमाओं के पार वस्तुओं और सेवाओं के प्रवाह को प्रतिबंधित करते हैं (B) वे सांस्कृतिक अलगाव को बढ़ावा देते हैं (C) वेविभिन्न देशों में निवेश करते हैं और वैश्विक आपूर्ति श्रृंखलाएँ बनाते हैं (D) वे स्थानीय बाज़ारों में प्रतिस्पर्धा को कम करते हैं। What role do multinational corporations (MNCs) play in globalization? (A)They restrict the flow of goods and services across borders (B) They promote cultural isolation (C) They invest in different countries and create global supply chains (D)They reduce competition in local markets.	1

35	(A) आर्थिक गतिविधियाँ, यद्यपि तीन अलग-अलग श्रेणियों में वर्गीकृत हैं, अत्यधिक परस्पर निर्भर हैं।चर्चा कीजिए।क्या आप इस विचार से सहमत हैं कि प्राथमिक, द्वितीयक और तृतीयक क्षेत्र एक-दूसरे पर निर्भर हैं? **अथवा** (B)"तृतीयक क्षेत्र की गतिविधियाँ प्राथमिक और द्वितीयक क्षेत्रों के विकास में सहायक होती हैं।" इस कथन का मूल्यांकन कीजिए। (A) Economic activities, though grouped into three different categories', are highly interdependent." Discuss. Do you agree with the view that primary, secondary and tertiary sectors are dependent on each other? **OR** (B)"Tertiary sector activities help in the development of the primary and secondary sectors." Evaluate the statement.	3
36	स्वयं सहायता समूहों के गठन के पीछे क्या उद्देश्य है? इस समूह की कार्य प्रणाली का भी संक्षेप में वर्णन कीजिए। **अथवा** गरीब किसानों और श्रमिकों के लिए ऋण को लाभकारी बनाने हेतु कोई पाँच उपाय बताइए। What is the motive behind formation of Self Help Groups? Also briefly explain the functioning of this group. **OR** State any five measures from which Loan can be made beneficial for poor farmers and workers.	3
37	(A) बैंकों और सहकारी समितियों के लिए ग्रामीण क्षेत्रों में अपनी ऋण सुविधाएँ बढ़ाना क्यों आवश्यक है? व्याख्या कीजिए। **अथवा** (B) हमें भारत में ऋण के औपचारिक स्रोतों का विस्तार करने की आवश्यकता क्यों है? (A) Why is it necessary for the banks and cooperative societies to increase their lending facilities in rural areas? Explain. **OR** (B)Why do we need to expand formal sources of credit in India?	5

38	(A)निम्नलिखित तालिका में दिए गए आँकड़ों को पढ़ें और दिए गए प्रश्न का उत्तर दें: (1+1+2)	4

नागरिकों की मासिक आय	देश- A	देश- B	देश -C
समूह I	9000	5000	2000
समूह II	10000	4000	1600
समूह III	8000	6800	3500
समूह IV	1100	5050	3000
समूह V	12500	29650	10000
औसतआय	?	?	?

38.1 देश A, B और C की औसत आय की गणना करें।

38.2 किस देश में आय का वितरणअधिक न्यायसंगत है?

(A) देश C. (B) देश A (C) देश B (D) 'देश A' और' देश B' दोनों

38.3 आप किन देशों में आर्थिक असमानताएँ पाते हैं? इस समस्या के समाधान के लिए एक व्यवहार्य समाधान सुझाएँ।

अथवा

(B)विकास के लिए सार्वजनिक सुविधाओं के महत्व की परीक्षा करें।

Read the data given in the following table and answer the given questions.(1+1+2)

Monthly income of citizens	Country -A	Country -B	Country- C
Group I	9000	5000	2000
Group II	10000	4000	1600
Group III	8000	6800	3500
Group IV	1100	5050	3000
Group V	12500	29650	10000
Average income	?	?	?

38.1 Calculate the average income of country A,B AND C

38.2 Which country has more equitable distribution of income?

(A) Country C (B) Country A (C) Country B (D) Both 'Country A' and 'Country B'

38.3 In which countries do you find economic disparities? Suggest a viable solution to overcome this problem.

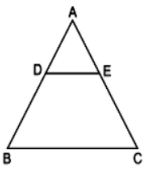
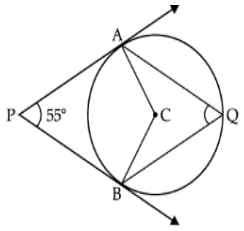
OR

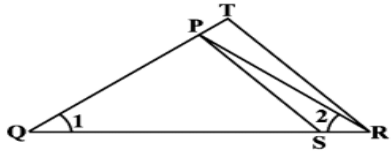
(B)Examine the importance of public facilities for the development.

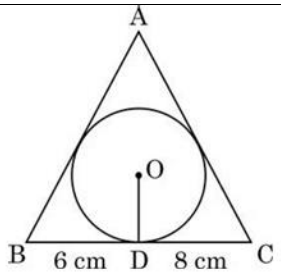
Map for Q. No. 9 (Section A) & Q. No 17 (Section B)

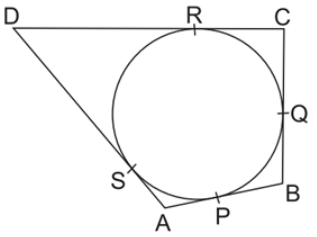


	KENDRIYA VIDYALAYA SANGATHAN, MUMBAI REGION **SESSION: 2025 - 26** **PREBOARD I EXAMINATION** **MATHEMATICS (STANDARD) – 041** **CLASS - X** **Maximum Marks: 80** **Time: 3 hours**	
	General Instructions: **Read the following instructions carefully and follow them:** 1. This question paper contains 38 questions. All Questions are compulsory. 2. This Question Paper is divided into 5 Sections A, B, C, D and E. 3. In Section A, Question numbers 1-18 are multiple choice questions (MCQs) and questions no. 19 and 20 are Assertion- Reason based questions of 1 mark each. 4. In Section B, Question numbers 21-25 are very short answer (VSA) type questions, carrying 02 marks each. 5. In Section C, Question numbers 26-31 are short answer (SA) type questions, carrying 03 marks each. 6. In Section D, Question numbers 32-35 are long answer (LA) type questions, carrying 05 marks each. 7. In Section E, Question numbers 36-38 are case study-based questions carrying 4 marks each with sub parts of the values of 1, 1 and 2 marks each respectively. 8. There is no overall choice. However, an internal choice in 2 questions of Section B, 2 questions of Section C and 2 questions of Section D has been provided. An internal choice has been provided in all the 2 marks questions of Section E. 9. Draw neat and clean figures wherever required. Take $\pi = 22/7$ 10. Use of calculators is not allowed. wherever required if not stated.	
	SECTION A	
1	The ratio of LCM and HCF of 2 and 4 is (a). 2:4 (b) 2:1 (c) 2:2 (d) 3:4	1
2	If α and β are the zeros of a polynomial $f(x) = px^2 – 2x + 3p$ and $\alpha + \beta = \alpha\beta$, then p is (a)-2/3 (b) 2/3 (c) 1/3 (d) -1/3	1
3	For what value of k will the pair of linear equations $x – 2y = 3$ and $– 3x + k\,y = – 9$ have infinitely many solutions? (a) (–6) (b) –3 (c) 3 (d) 6	1
4	If one root of equation $4x^2 – 2x+k-4=0$ is reciprocal of the other. Then find the value of k. (a) -8 (b) 8 (c) -4 (d) 4	1
5	If k, 2k – 1 and 2k + 1 are three consecutive terms of an A.P., then the value of k is (a) 2 (b) –3 (c) 3 (d) 5	1
6	The distance of the point (–6, 8) from x-axis is (a) 6 units (b) – 6 units (c) 8 units (d) 10 units	1
7	The coordinates of a point P, where PQ is the diameter of a circle whose center is (2, – 3) and Q is (1, 4) is: (a) (3, -10) (b) (2, -10) (c) (-3, 10) (d) (-2, 10).	1

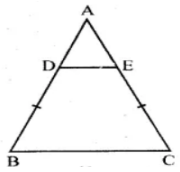
8	In the ΔABC, D and E are points on side AB and AC respectively such that DE || BC. If AE = 2 cm, AD = 3 cm and BD = 4.5 cm, then CE equals (a) 1 (b) 2 (c) 3 (d) 	1
9	If ΔABC is right angled at C, then the value of sin (A + B) is (a) 0 (b) 1 (c) 1/ 2 (d) √3/ 2	1
10	A student uses a clinometer to measure the height of a flagpole .The angle of elevation from a point 75 m away from the pole is 30°.What is the height of the flagpole (in meters)? (a) 25√3 (b) 75√3 (c) 150 (d) 50√3	1
11	If $2\sin^2A - \cos^2A = 2$, then A is: (a)90° (b) 0° (c) 45° (d) 30°	1
12	The area of a circle that can be inscribed in a square of side 6 cm is: (a) 36 π cm^2 (b) 18 π cm^2 (c) 9 π cm^2 (d) 12 π cm^2	1
13	In the given figure, PA and PB are tangents from external point P to a circle with centre C and Q is any point on the circle. Then the measure of ∠AQB is (a) 62½° (b) 55° (c) 125° (d) 90° 	1
14	If the sum of the areas of two circles with radii R^1 and R^2 is equal to the area of a circle of radius R, then: (a) $R_1{}^2 + R_2{}^2 = R^2$ (b) $R_1 + R_2 < R$ (c) $R_1 + R_2 = R$ (d) $R_1 + R_2 < R_2$	1
15	The length of a tangent from a point A at a distance 5 cm from the centre of the circle is 4 cm. The radius of the circle is (a) 3 cm (b) 5 cm (c) 7 cm (d) 10 cm	1
16	What is the probability of getting 53 Mondays in a Leap year? (a) 1/7 (b) 1/5 (c) 2/7 (d) 3/5	1
17	Rahul is playing with two dice. what is the probability of getting not doublet? (a) 1/3 (b) 1/6 (c) 1/5 (d) 5/6	1
18	A card is drawn at random from a well-shuffled pack of 52 cards. The probability that the card drawn is not an ace is (a) 1/13 (b) 9/13 (c) 4/13 (d) 12/13	1
	DIRECTION: In the question number 19 and 20, a statement of assertion (A) is followed by a statement of Reason (R). Choose the correct option (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) Assertions (A) is true but reason (R) is false. (d) Assertions (A) is false but reason (R) is true.	

19	**Assertion (A):** If the second term of an A.P., is 13 and the fifth term is 25, then its 7th term is 33. **Reason (R):** If the common difference of an A.P is 5, then $a_{18} - a_{13}$ is 25.	1
20	**Assertion (A):** The radii of two cones are in the ratio 2 : 3 and their volumes in the ratio 1 : 3. Then the ratio of their heights is 3 : 2. **Reason (R):** Volume of the cone = 1/3 ($\pi r^2 h$) .	1
	SECTION B	
21	Find HCF and LCM of 404 and 96 and verify that HCF × LCM = Product of the two given numbers.	2
22	A ladder 15 m long just reaches the top of a vertical wall. If the ladder makes an angle of 60° with the wall, then find the height of the wall . OR Evaluate: $(5\sin^2 30 + \cos^2 45 + 4\tan^2 60) / (2\sin^2 30 \cos^2 60 + \tan^2 45)$	2
23	In the given figure, QR / QS =QT /PR and ∠1 = ∠2, Show that ΔPQS ~ ΔTQR. 	2
24	A student draws tangents from an external point and measures its lengths, prove that the lengths of the tangents drawn from an external point to a circle are equal.	2
25	A horse is placed for grazing inside a rectangular field 70 m by 52 m and is tethered to one corner by a rope 28 m long. On how much area can it graze? OR The length of the minute hand of a clock is 14 cm. Find the area swept by the minute hand in 5 minutes.	2
	SECTION C	
26	Prove that √5 is an irrational number.	3
27	The relationship between the times x (in hours) of travel and the distances y covered (in kilometers) of the two cars is represented by the following equations 2x + y = 6 2x - y - 2 = 0 Solve the following system of equations graphically and calculate the area of the triangle formed by these two lines and the x-axis.	3
28	In Figure, a triangle ABC is drawn to circumscribe a circle of radius 4 cm such that the circle touches the side BC at point D, dividing BC into segments BD = 6cm and DC = 8cm.If the area of ΔABC is 84 cm², find the lengths of sides AB and AC.	3

<table>
<tr><td></td><td>



OR
A quadrilateral ABCD is drawn to circumscribe a circle, as shown in the given
Show that AB+CD=AD+BC.</td><td></td></tr>
<tr><td>29</td><td>The area of a rectangular garden (in m²) is given by $p(x) = 2x^2 – x – 6$, where x is its length (in m).
(i) For which two values of x will the area be zero?
(ii) Verify the relationship between the zeroes and the coefficients.</td><td>3</td></tr>
<tr><td>30</td><td>Prove that: $(\sin A + \operatorname{cosec} A)^2 + (\cos A + \sec A)^2 = 7 + \tan^2 A + \cot^2 A$
OR
If $x = p \sec \theta + q \tan \theta$ and $y = p \tan \theta + q \sec \theta$, then prove that $x^2 – y^2 = p^2 – q^2$</td><td>3</td></tr>
<tr><td>31</td><td>A school’s marks distribution is given below. Find the mode and suggest about student performance?
<table>
<tr><td>Marks</td><td>0-20</td><td>20-40</td><td>40-60</td><td>60-80</td><td>80-100</td></tr>
<tr><td>Number of Students</td><td>5</td><td>10</td><td>12</td><td>6</td><td>3</td></tr>
</table></td><td>3</td></tr>
<tr><td></td><td>SECTION D</td><td></td></tr>
<tr><td>32</td><td>Prove that if a line is drawn parallel to one side of a triangle to intersect the other two sides in distinct points, the other two sides are divided in the same ratio

Using the above result, prove the following.
In the given figure, DE ∥ BC and BD = CE.
Prove that Δ ABC is an isosceles triangle.

</td><td>5</td></tr>
<tr><td>33</td><td>The age of a man is twice the square of the age of his son. Eight years hence, the age of the man will be 4 years more than three times the age of his son. Find their present ages.</td><td>5</td></tr>
<tr><td>34</td><td>A vessel full of water is in the form of an inverted cone of height 8 cm and the radius of its top, which is open, is 5 cm. 100 spherical lead balls are dropped into the vessel. One fourth of the water flows out of the vessel. Find the radius of a spherical ball.
OR
A tent is in the shape of a cylinder surmounted by a conical top. If the height and radius of the cylindrical part are 3 m and 14 m respectively, and the total height of the tent is 13.5 m, find the area of the canvas required for making the tent, keeping a</td><td>5</td></tr>
</table>

	provision of 26 m^2 of canvas for stitching and wastage. Also, find the cost of the canvas to be purchased at the rate of ₹ 500 per m^2.	
35	The table below shows the distribution of marks obtained by the students in a mathematics test. Find the mean and median marks obtained by the student.	5

Marks Scored	20-60	60-100	100-140	140-180	180-220	220-260
Number of students	7	5	16	12	2	3

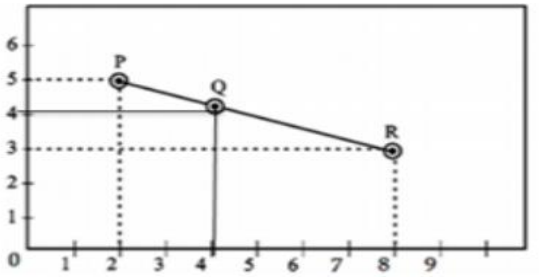
OR

The distribution below gives the marks of 100 students of a class, if the median marks are 24, find the frequencies f_1 and f_2.

Marks	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40
No. of students	4	6	10	f_1	25	f_2	18	5

SECTION E

36 Three friends Ankur, Kunal, and Chetan are standing in different lines to buy movie tickets. Their positions are shown by P, Q, R in the plot diagram.



Answer the following:

(i) Find how far Ankur (P) and Chetan (R)are from each other. 1

(ii) Is Kunal exactly halfway between Ankur and Chetan? Check by finding the midpoint of PR. 1

(iii) Find the point on the x-axis that is at the same distance from P and Q. 2

OR

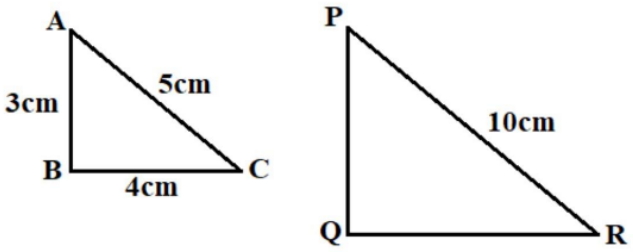
If a point S divides the line joining P and Q in the ratio 2 : 3, find the coordinates of S. 2

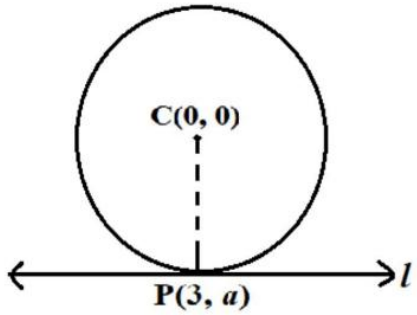
37 Some students went on a trip to a wildlife park. They climbed up a watchtower (P) that was 18 meters above a small lake. From the top, they noticed two points A and B on the opposite sides of the lake.The angle of depression from the tower to point A was 60°, and to point B was 30°

	 Now, answer the following: (i) Find the distance PA. (ii) Find the distance PB. (iii)Find the width of the lake (AB). OR If a bird at point Q is seen from P at an angle of elevation of 30°, find how high the bird (BQ) is above the lake.	1 1 2 2
38	Neha saves ₹24 during the first month, ₹30 in the second month and ₹36 in the third month. She continues to save in this manner.  On the basis of above information answer the following questions. (i)Whether the monthly savings of Neha form an AP or not? If yes then write the first term and common difference. (ii) What is the amount that she will save in 15th month? (iii)In which month, will she save ₹66? OR What is the common difference of an AP whose nth term is 8 – 5n?	 1 1 2 2

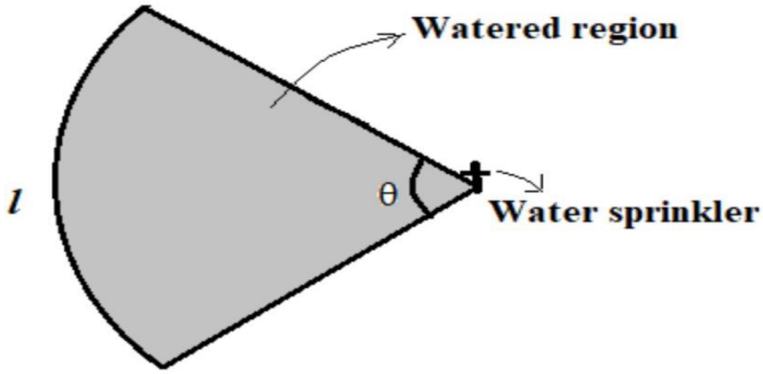
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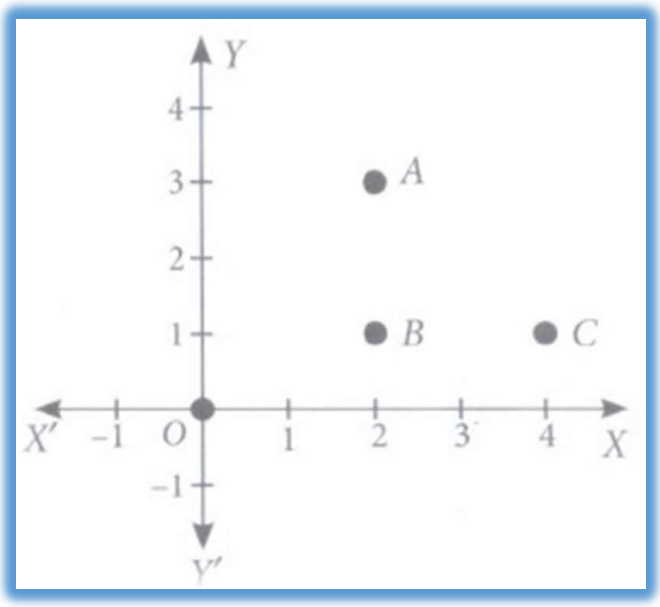
	KENDRIYA VIDYALAYA SANGATHAN, MUMBAI REGION **SESSION: 2025 - 26** **PREBOARD I EXAMINATION** **MATHEMATICS (BASIC) – Code No. 241** **CLASS - X** **Time Allowed: 3 Hrs** **Maximum Marks: 80** **General Instructions:** **This Question Paper consist of 38 questions divided into 5 Sections A, B, C, D, and E.** **Section A has 20 Multiple Choice Questions (MCQs) carrying 1 mark each.** **Section B has 5 Short Answer-I (SA-I) type questions carrying 2 marks each.** **Section C has 6 Short Answer-II (SA-II) type questions carrying 3 marks each.** **Section D has 4 Long Answer (LA) type questions carrying 5 marks each.** **Section E has 3 sourced based/Case Based/passage based/integrated units of assessment (4 marks each) with sub-parts of the values of 1, 1 and 2 marks each respectively.** **All Questions are compulsory. However internal choice has been provided in each section except section A.** **Draw neat figures wherever required. Take π =22/7 wherever required if not stated.**	
	SECTION -A	
1	The LCM of two numbers is 182 and their HCF is 13. If one of the numbers is 26, the other number is. (a)84 (b) 90 (c) 81 (d) 91	1
2	Find the quadratic polynomial whose sum and product of zeroes are 0 and √5 respectively. (a) x^2- √5x (b) x^2- 6 (c) x^2- √5, (d) x^2+ √5	1
3	The system of equations k x - y = 2 and 6x -2y = 3 has a unique solution when: (a) k = 0 (b) k ≠ 0 (c) k = 3 (d) k ≠ 3	1
4	If one root of the quadratic equation $2x^2 + kx – 6 = 0$ is 2, the value of k is (a) 1 (b) -1 (c) 2 (d) -2	1
5	In an AP, if d = -4, n = 7, a_n = 4, then a is (a) 6 (b) 7 (c) 20 (d) 28	1
6	If k-1, k+3 and 3k-1 are in AP, then find the value of k (a) 4 (b) 5 (c) 3 (d) 7	1
7	The x- axis divides the join of P(2, −3) and Q(5, 6) in the ratio: (a) 2 : 3 (b) 1 : 2 (c) 2 : 1 (d) 3 : 5	1
8	Which of the following is NOT a similarity criterion of triangles? (a) AA (b) SAS (c) AAA (d) RHS	1

9	Find the coordinates of the centre of the circle where coordinates of the ends of the diameter are (a,b) and (-a,-b) (a)(0,0) (b) (a,b) (c) (-a,-b) (d) (a/2,b/2)	1
10	If ΔABC~ΔPQR, then perimeter of the triangle PQR (in cm) is (a) 12 cm (b) 24 cm (c) 18 cm (d)20 cm 	1
11	If the angle between two radii of a circle is 110º, then the angle between the tangents at the ends of the radii is: (a) 90^0 (b) 50^0 (c) 70^0 (c) 40^0	1
12	$(1 - \sin^2 A)$ is equal to a) $\cos^2 A$ b) $\tan^2 A$ c) $1 - \sin^2 A$ d) $\sec^2 A$	1
13	The length of the tangent drawn from a point 8 cm away from the centre of a circle of radius 6 cm is (a) 10 cm (b) 5 cm (c) 7 cm (d) $2\sqrt{7}$ cm	1
14	Consider the following frequency distribution Class: 5-15 | 15-25 | 25-35 | 35-45 | 45-55 | 55-65 frequency: 6 | 11 | 21 | 23 | 14 | 5 The upper limit of modal class is: (a) 23 (b) 35 (c) 45 (d) 80	1
15	Find the area of a sector of circle of radius 21 cm and central angle 120°. (a) 441 cm^2 (b) 462 cm^2 (c) 386 cm^2 (d) 512 cm^2	1
16	If tan x = 1, then what is the value of x (a) 30° (b) 45° (c) 60° (d) 90°	1
17	The relationship between mean, median and mode for a moderately skewed distribution is (a) mode = median – 2 mean (b) mode = 3 median – 2 mean (c) mode = 2 median – 3 mean (d) mode = median – mean	1
18	**The probability that cannot exist among the following:** (a) ⅔ (b) -1.5 (c) 15% (d) 0.7	**1**
	DIRECTION: In the question number 19 and 20, a statement of assertion (A) is followed by a statement of Reason (R). Choose the correct option (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) **Assertions (A)** is true but **reason (R)** is false. (d) **Assertions (A)** is false but **reason (R)** is true.	

19.	**Assertion (A):** Line joining the midpoints of two sides of triangle is parallel to the third side. **Reason(R):** If a line divides two sides of a triangle in the same ratio then it is parallel to the third side.	**1**
20	**Assertion (A):** The sum of probabilities of all possible outcomes of a random experiment is 1. **Reason(R):** The probability of an impossible event is 0.	**1**
	SECTION -B	
21	Three bells ring at intervals of 6, 8, and 12 minutes. If they ring together at 7:00 AM, when will they next ring together? OR The sum of two numbers is 90 and their LCM is 60. If one number is 30, find the other number and the HCF of these numbers.	2
22	Find the radius of the circle with centre at origin, if line L given by $x+y = 5$ is tangent to the circle at point P(3,a)  	2
23	If 4 tan θ = 3, then evaluate : $\frac{(4\sin\theta - \cos\theta)}{(4\sin\theta + \cos\theta)}$ **OR** Evaluate: $\sin^2 60^\circ + 2\tan 45^\circ - \cos^2 30^\circ$.	2
24	If α and β are zeroes of the polynomial $2x^2 - 5x + 7$, then find the value of $\alpha^{-1} + \beta^{-1}$.	2
25	The sum of two numbers is 27 and their product is 182. Find the numbers using a quadratic equation.	2
	SECTION -C	
26	Prove that $3-2\sqrt{2}$ is an irrational number, given that $\sqrt{2}$ is irrational	3
27	The sum of first n terms of an AP is $5\boldsymbol{n}^2 - \boldsymbol{n}$. Find the1st, 2nd, 10th and nth term of the AP.	3
28	Two friends, Riya and Meena, are planning to buy notebooks and pens for an NGO. Riya buys 4 notebooks and 6 pens for ₹72. Meena buys 2 notebooks and 4 pens for ₹40. (i) Represent the situation algebraically. (ii) Find the cost of one notebook and one pen using graphical method. **OR** The sum of the digits of a two-digit number is 9. If 27 is added to the number, the digits interchange their places. Find the number.	3
29	Prove that: $(\sin A + \operatorname{cosec} A)^2 + (\cos A + \sec A)^2 = 7 + \tan^2 A + \cot^2 A$	3
30	Show that parallelogram circumscribing a circle is a rhombus.	3
31	If the median of the following frequency distribution is 35, find the value of k.	3

	<table><tr><td>**Class int**</td><td>**20-25**</td><td>**25-30**</td><td>**30-35**</td><td>**35-40**</td><td>**40-45**</td><td>**45-50**</td></tr><tr><td>**frequency**</td><td>**2**</td><td>**5**</td><td>**8**</td><td>**K**</td><td>**4**</td><td>**5**</td></tr></table> OR The following data gives the heights of students of a class: <table><tr><td>**No. of students**</td><td>**160-165**</td><td>**165-170**</td><td>**170-175**</td><td>**175-180**</td><td>**180-185**</td></tr><tr><td>**Y**</td><td>**5**</td><td>**10**</td><td>**20**</td><td>**10**</td><td>**5**</td></tr></table> Find the mode of the data.	
	SECTION -D	
32	State and prove Basic Proportionality theorem.	5
33	A train travels 360km at a uniform speed. If the speed had been 5km/h more, it would have taken 1 hour less for the same journey. Find the speed of the train. **OR** A rectangular park is 60 m long and 40 m wide. A path of uniform width runs around the park inside it. The area of the path is 384 m^2. Find the width of the park	5
34	A hemispherical depression is cut out from one face of a wooden cylinder of radius 7 cm and height 10 cm. Find the total surface area of the remaining solid. Also find the amount of wood remaining in the solid.	5
35	The angle of elevation of the top of a building from the foot of the tower is 30° and the angle of elevation of the top of the tower from the foot of the building is 60°. If the tower is 50 m high, find the height of the building. OR The angle of depression of the top and bottom of a building from the top of a 40 m high tower are found to be 30° and 45° respectively. Find the horizontal distance between the building and tower and the height of building.	5
	SECTION -E	
36	A group of students conducted a survey to find out about the preferred mode of transportation to school among their classmates. They surveyed 200 students from their school. The results of the survey are as follows: 120 students preferred to walk to school. 25% of the students preferred to use bicycles. 10% of the students preferred to take the bus. Remaining students preferred to be dropped off by car. Based on the above information, answer the following questions:	
i	What is the probability that a randomly selected student does not prefer to walk to school?	1
ii	Find the probability of a randomly selected student who prefers to walk or use a bicycle.	1
iii	One day 50% of walking students decided to come by bicycle. What is the probability that a randomly selected student comes to school using a bicycle on that day? OR What is the probability that a randomly selected student prefers to be dropped off by car?	2
37	A water sprinkler is a device used to irrigate agricultural crops, lawns, landscapes, golf courses, and other areas. Water sprinklers can be used for residential, industrial, and agricultural usage	

	 A water sprinkler is set to shoot a stream of water a distance of 21 m and rotate through an angle which is equal to complementary angle of 10°.  	
i	What is the area of sector in terms of arc length?	1
ii	What is the area of the watered region (in terms of π)?	1
iii	If the radius(r) changes to 28m, find the angle θ so that the area of the watered region remains the same. OR If the radius(r) is increased from 21m to 28m and the angle remains the same, what is the increase in the area of the watered region	2
38	Alia and Shagun are friends living on the same street in Patel Nagar. Shagun's house is at the intersection of one street with another street on which there is a library. They both study in the same school and that is not far from Shagun's house. Suppose the school is situated at the point O, i.e., the origin, Alia's house is at A. Shagun's house is at B and library is at C. Based on the above information, answer the following questions.	

		
i	How far is Alia's house from Shagun's house?	1
ii	How far is the library from Shagun's house?	1
iii	Show that for Shagun, school is farther compared to Alia's house and library. **OR** Show that Alia's house, shagun's house and library form an isosceles right triangle.	2

KENDRIYA VIDYALAYA SANGATHAN, MUMBAI REGION

PRE-BOARD I EXAMINATION (2025-26)

ENGLISH – LANGUAGE AND LITERATURE (CODE-184)

CLASS-X

Time allowed: 3 Hrs. Maximum Marks: 80

General Instructions:

Read the instructions very carefully and follow them strictly:

(i) This question paper comprises 11 questions. All questions are compulsory.

(ii) The question paper contains THREE sections

Section-A: Reading Skills

Section-B: Grammar and Creative Writing Skills

Section-C: Literature Text Book

(iii) Attempt questions based on specific instructions for each part.

Section: A READING (20 Marks)

Q.1) Read the following passage. **(10 Marks)**

1. In recent years, India has asserted itself as a formidable force in the world of chess. A particularly notable milestone occurred in 2024 when 17-year-old Gukesh D clinched victory at The Candidates Chess Tournament in Toronto, making him the youngest challenger for the world title. His success not only broke records but also underscored India's growing influence in chess. Unlike a decade ago, when Viswanathan Anand was the sole Indian presence at the global level, the 2024 tournament featured five Indian players, including two women.

2. Gukesh's triumph and the emergence of other young talents are far from coincidental. A multitude of factors have contributed to India's ascendance in the chess arena. Key among these is the commitment of veteran Grandmasters to nurturing the next generation. They have established academies and training programs to hone emerging talent. For instance, Charvi Anilkumar, a promising 10-year-old chess player from Bengaluru, has been receiving guidance from Grandmaster RB Ramesh. Recognizing her aptitude early on, her parents have invested in her training, leading her to secure titles such as the Under-8 Girls World Championship in 2022.

3. The chess landscape in India has also benefited from increased governmental and private sector support. Many institutions provide a structured environment where young players can refine their skills under the guidance of accomplished coaches.

4. The sūrge of chess talent in India can be attributed to v̄arious interrelated factors. Advances in technology have provided young players with unprecedented access to online platforms, sophisticated training software, and a wealth of chess literature, enabling them to study strategies

employed by legends worldwide. The COVID-19 pandemic, despite its challenges, offered many of these youngsters the opportunity to sharpen their skills without the usual pressures of travel and competition.

5. Moreover, the consistent success of Indian players on the international stage has conferred a psychological advantage. As Grandmaster RB Ramesh notes, "Many are fearing playing against Indians," indicating that Indian players often start with a mental edge. Additionally, both governmental backing and private investments have enhanced the infrastructure supporting young chess aspirants.

6.The journey to attaining the prestigious title of Grandmaster demands unwavering commitment, sacrifice, and a robust support network. Charvi Anilkumar, for instance, has foregone watching television for five years to maintain her focus on chess. Gukesh D's coach, Grandmaster Vishnu Prasanna, has emphasised the extent of Gukesh's sacrifices, noting that he has largely set aside the experiences of a typical childhood to reach the apex of his sport. These anecdotes illustrate the level of dedication required to excel in the competitive world of chess.

7. Yet, experts like Viswanathan Anand and Grandmaster Ramesh maintain that the title of Grandmaster is attainable for anyone willing to put in the effort. "It's not about innate talent," says Anand. "Our cultural emphasis on learning and the competitive environment in India push young players to constantly improve." Grandmaster Ramesh concurs, noting, "Most of the children are inherently talented. The human mind is the foundational requirement to become a Grandmaster."

Answer the following questions, based on the passage above.

i) Infer why Grandmaster RB Ramesh says, "Many are fearing playing against Indians." (1 Mark**)**

ii) Decode the passage to identify one personal sacrifice made by Gukesh D or Charvi Anilkumar to excel in chess. (Paragraph-6) (1 Mark)

iii) Identify the sentence in which the word **"ascendance"** is used in the same sense as in the passage. (Paragraph-2) (1 Mark)

Sentences:

a) The king's ascendance to the throne was celebrated by the entire kingdom.
b) The old tree stood in quiet ascendance, untouched by the storm.
c) The ascendance of technology has changed the way we communicate.
d) She felt a sense of ascendance while listening to music in the park.

iv) Complete the analogy by selecting one of the correct options (1 Mark)

Gukesh D : Youngest Challenger :: Viswanathan Anand : ……?

a) Coach
b) Pioneer
c) Opponent
d) Spectator

v) According to Viswanathan Anand, success in chess depends mainly on: (1 Mark)
a) Innate talent alone
b) Cultural emphasis on learning and competition
c) Luck and timing
d) Avoiding sacrifices in childhood

vi) Which factor is highlighted as NOT contributing to India's chess success? (1 Mark)
a) Guidance from veteran Grandmasters
b) Increased access to technology
c) Government and private support
d) Reducing international competitions

vii) Explain how India's chess scenario has evolved from the era of Viswanathan Anand to the time of Gukesh D. (Paragraph-1) (2 Marks)

viii) Analyze the role of coaching, technology, and structured training programs in shaping the success of young Indian chess players. (Paragraph-4) (2 Marks)

Q.2) Read the following passage. (10 Marks)

1. Sleep plays a crucial role in maintaining overall health and well-being. Adequate and quality sleep is essential for various physiological and cognitive functions. Research has shown that insufficient sleep can have detrimental effects on both physical and mental health.

2. One of the key impacts of sleep deprivation is its effect on the immune system. Studies have found that lack of sleep can weaken the immune response, making individuals more susceptible to infections and diseases. Moreover, chronic sleep deprivation has been linked to an increased risk of developing chronic conditions such as obesity, diabetes and cardiovascular diseases.

3. In addition to physical health, sleep also plays a vital role in cognitive function and mental well-being. Sufficient sleep is necessary for optimal brain function, including memory consolidation learning, and problem-solving skills. Lack of sleep can impair cognitive performance, attention, and decision making, abilities. It has also been associated with an increased risk of mental health disorders such as depression and anxiety.

4. In conclusion, sleep is a fundamental pillar of good health. It is essential for maintaining a strong immune system, supporting cognitive function, and promoting mental well-being. Adequate sleep should be prioritized as part of a healthy lifestyle to prevent the development of chronic diseases and promote overall well-being.

Here is a table summarizing the recommended sleep duration for different age groups (data only for reference):

Age Group	Recommended Sleep Duration
Infants	14-17 hours
Toddlers	11-14 hours
Preschool	10-13 hours
School-age	9-11 hours
Teenagers	8-10 hours
Adults	7-9 hours

Answer the following questions, based on the passage above.

i) Select the option that is true for a **Statement (S)** and a **Reason (R) given below**. (1 Mark)

Statement (S): Lack of sleep can lead to obesity and diabetes.
Reason (R): Sleep deprivation affects the balance of hormones that control hunger and blood sugar levels.
a) Both S and R are true, and R is the correct explanation of S.
b) Both S and R are true, but R is *not* the correct explanation of S.
c) S is true, but R is false.
d) S is false, but R is true.

(ii) What is the overall tone of the passage? (1 Mark)
a) Humorous
b) Informative and persuasive
c) Angry and critical
d) Sad and emotional

iii) Identify whether the statements are FACT or OPINION: (1/2x2=1 Mark)

(a) Lack of sleep weakens the immune system and increases the risk of infections. (fact/opinion)
(b) Teenagers can easily manage with only four to five hours of sleep. (fact/opinion)

(iv) In the context of the passage, the word *"consolidation"* most nearly means:

(Paragraph-3) (1 Mark)
a) Separation
b) Strengthening
c) Forgetting
d) Relaxing

(v) According to the passage, what is one major effect of sleep deprivation on physical health? (Paragraph-2) (1 Mark)
a) It increases body temperature b) It weakens the immune system
c) It enhances digestion d) It improves blood circulation

(vi) Calculate the difference in maximum recommended sleep hours between infants and teenagers. (1 Mark)

(vii) How does sleep contribute to better cognitive function and academic performance in students? (Paragraph-3) *(Answer in 30–40 words)* (2 Marks)

(viii) Based on the passage, infer why prioritizing sleep is as important as maintaining a healthy diet or exercising regularly. (Paragraph-4) *(Answer in 30–40 words)* (2 Marks)

SECTION B : WRITING SKILL AND GRAMMAR (20 MARKS)

GRAMMAR (10 Marks)

Q.3) Complete ANY TEN of twelve of the following tasks, as directed. (1x10=10 Marks)

i. Select the correct option to complete the reporting of the dialogue given below:
Mother: Why aren't you playing with your friends?
Riyan: I am not feeling well today.
Mother asked Riyan…….. Riyan replied that he was not feeling well that day.
a) whether he was not playing with his friends
b) that he was not playing with his friends
c) why he wasn't playing with his friends
c) why wasn't he playing with his friends

ii. Complete the given school announcement by selecting the correct option to fill in the blank
Good news, everyone!
Our school's cricket team has successfully…… a place in the finals.

(a) securing (b) secured
(c) will secure (d) had secured

iii. _____ left an envelope for Ravi on his desk.

(a) Somebody (b) None
(c) Everybody (d) Anybody

iv. Select the correct option to fill in the blank for the given line.
…….I suggest a suitable change in your plan?

(a) May (b) Would
(c) Must (d) Will

v. Select the option that identifies the error and supplies the correction for the following line
Simon usually ate breakfast before he goes to school.

Option No.	Error	Correction
(a)	before	after
(b)	usually	always
(c)	goes	went
(d)	ate	eat

vi. Identify the error and supply the correction for the given sentence from an advertisement.
The board invite online applications from eligible candidates for the post of a junior clerk.

Error	Correction

vii. Ronit and Remo are discussing their plans for the weekend. Complete the dialogue below by choosing the correct option.
Ronit : How do you like the idea of going to the movie?
Remo : That sounds good, But I …….. my parent's permission.
(a) needs to seek (b) need not to seek
(c) needs not to seek (d) need to seek

viii. Complete the given sentence, by filling in the blank with the correct option :
Had the security not reached there in time, the intruder ……. him.
(a) did have harm (b) will have harmed
(c) would harm (d) would have harmed

ix. Transform the following direct speech into indirect speech :
I said, "Revati, can I get your sample question set now ?"

x. Report the dialogue between Ishan and John, by completing the narration :
Ishan: Where are you going?
John: I am going for the shopping. Do you want anything?
Ishan asked John…….. . John replied that he was going for the shopping and he further asked if he wanted anything.

xi Select the correct option to complete the given sentence from a handbook for managers.
The manager.....consider the proposal before making a decision.
(a) will (b) should
(c) might (d) can

xii. Identify the error in the given sentence and supply the correction.
Has she got some evidence that he caused the trouble?
Use the given format for your response.

Error	Correction

WRITING SKILL (10 Marks)

NOTE: *All details presented in the questions in writing section are imaginary and created for assessment purpose.*

Q.4- (A) You are Rohini/Rohan, a Class X student from Glorious International School, Andheri. Last month, you participated in a cleanliness drive organised by your school in collaboration with the local municipal authorities. The drive was aimed at raising awareness about hygiene and civic responsibility among residents of nearby slum areas. The experience taught you the value of teamwork, empathy, and proactive citizenship. Write a letter (about 120 words) to the editor of a

leading newspaper, sharing your experience and encouraging other students to take part in such social initiatives to bring about positive change. (5 Marks)

OR

(B) As Kavita/Kavish Rana of Royal Apartments, M.G. Nagar, Pune you feel that the increasing noise levels from construction activities, traffic and loud gatherings are disrupting the peace and tranquillity of your neighbourhood. This is particularly problematic during late hours and is impacting the sleep and well-being of residents. Write a letter to the DM of your city area, in about 120 words, stating the problem and requesting him to take necessary action for controlling the problem of noise. Give suitable suggestions. (5 Marks)

Q.5-A) You are the Cultural Secretary of your school. Two professional artists—Mr. Arvind Rao and Ms. Kavita Mehta—have written to express their interest in conducting a workshop on Creative Arts for your school's annual cultural fest. Read the excerpts from their letters carefully and answer the question that follows.

Excerpt 1:
...I am delighted to offer a workshop on creative arts at your school. With 15 years of experience as a painter and art educator, I have conducted over 100 workshops across the country. My sessions focus on blending traditional and modern art forms, allowing students to explore their imagination freely. Many of my students have showcased their work in state-level exhibitions. I believe my expertise will help your students develop both skill and confidence in art.

Best regards,
Mr. Arvind Rao

Excerpt 2:
...I would be honoured to conduct a creative arts workshop during your school's cultural fest. As a digital artist and graphic designer, I specialise in teaching students how to use technology to express their creativity. I have led sessions at various schools and design institutes, focusing on digital illustration, animation, and poster creation. My workshops encourage innovation and help students connect art with real-world applications.

Yours sincerely,
Ms. Kavita Mehta

Question:
Analyse the information in a paragraph, justifying which artist would be a better choice to conduct the workshop. Consider factors such as experience, relevance to the theme, and student engagement. (5 Marks)

OR

Q.5-B) Rohan, a class X student, is preparing for an **inter-school science exhibition**. He is innovative, curious, and has strong research skills. However, he sometimes struggles to organise his findings and complete projects within the given timeline. He needs to choose a partner from **Neha**, **Arjun**, and **Simran**. Read their profiles carefully and then analyse who would be the best partner for Rohan.

Neha:
Neha is systematic and methodical in her work. She is known for her excellent record-keeping and attention to detail. She ensures that every task is completed on time and according to plan. However, she sometimes hesitates to experiment with new ideas or take creative risks.

Arjun:
Arjun is energetic and full of innovative ideas. He loves exploring new possibilities and is quick to adapt to changes. However, he tends to get distracted easily and often leaves tasks unfinished.

Simran:
Simran is confident and persuasive. She has great presentation skills and communicates complex ideas effectively. However, she relies on others for research and planning, as her strengths lie more in communication than in execution.

Question:
Based on the qualities of each candidate, analyse and decide who would be the most suitable partner for Rohan. Consider aspects such as complementary strengths, teamwork, and the nature of the project. (5 Marks)

SECTION C: LITERATURE TEXTBOOK (40 marks)

Q.6) Read the given extracts and answer **ANY ONE** of the two questions given below (5 Marks)

Q.6-A) ***CHUBUKOV****: You may take it that I know whether I have the right or not. Because, young man, I'm not used to being spoken to in that tone of voice, and so on. I, young man, am twice your age, and ask you to speak to me without agitating yourself, and all that.*

LOMOV*: No, you just think I'm a fool and want to have me on! You call my land yours, and then you want me to talk to you calmly and politely! Good neighbours don't behave like that, Stepan Stepanovitch! You're not a neighbour, you're a grabber! (The Proposal)*

I. Contradict the view that the argument between Chubukov and Lomov is polite and calm. *(2 Marks)*

II. Which statement best describes the relationship between Chubukov and Lomov in this extract? *(1 Mark)*
a) Cordial neighbours
b) Friendly acquaintances
c) Tense and argumentative neighbours

III. What can be inferred about Lomov's feelings toward Chubukov's behaviour? *(1 Mark)*

IV. Classify the following words into **words expressing emotion** and **words expressing action**:
i) agitating ii) call iii) angry iv) spoken v) talk *(1 Mark)*

No.	Emotion	Action
a	i, iii	ii, iv, v
b	iii, v	i, ii, iv
c	i, ii	iii, iv, v
d	i, iii, v	ii, iv

OR

Q.6- B) At the end of ten years, they had restored all. Mme Loisel seemed old now. She had become a strong, hard woman, the crude woman of the poor household. Her hair badly dressed, her skirts awry, her hands red, she spoke in a loud tone, and washed the floors with large pails of water. But sometimes, when her husband was at the office, she would seat herself before the window and think of that evening party of former times, of that ball where she was so beautiful and so flattered.

How would it have been if she had not lost the necklace? Who knows? How singular is life and how full of changes! How small a thing will ruin or save one! (The Necklace)

I. What does the description *"the crude woman of the poor household"* reveal about Mme Loisel's transformation over the years? *(2 Marks)*

II. Which of the following best captures Mme Loisel's feelings as she remembers the ball? *(1Mark)*

a) Bitterness over her lost youth and beauty
b) Gratitude for having experienced luxury once
c) Pride in her sacrifice and hard work
d) Satisfaction with her present life

III. The contrasting imagery of *"beautiful and admired"* versus *"red hands" and "badly dressed hair"* primarily highlights — *(1 Mark)*
a) The effects of wealth and fame
b) The difference between illusion and reality
c) The rewards of honesty and humility
d) The importance of outer appearance

IV. Read the following expressions from the extract: *(1 Mark)*
i) restored everything ii) spoke in a loud tone
iii) think of that evening iv) great swishes of water

Select the option that correctly categorises (i)–(iv) as **actions** or **reflections.**

No.	Actions	Reflections
a	i, ii, iv	iii
b	ii, iii	i, iv
c	iii, iv	i, ii
d	i, iii	ii, iv

Q.7) Read the given extracts and answer **ANY ONE** of the two questions given below (5 Marks)

Q.7-A) Don't bite your nails, Amanda!
Don't hunch your shoulders, Amanda!
Stop that slouching and sit up straight, Amanda!
(There is a languid, emerald sea,
where the sole inhabitant is me—
a mermaid, drifting blissfully.) (*Amanda!* – Robin Klein)

I. Which emotions are most appropriately conveyed through Amanda's imagined world under the sea? *(1 Mark)*
i) freedom ii) joy iii) rebellion iv) peace v) irritation

Select the correct option.
A. i, ii, iv
B. iii, iv, v
C. i, iii, v
D. ii, iv, v

II. What does the contrast between the mother's commands and Amanda's imagination reveal about her character? *(2 Marks)*

III. Which line from the extract best captures Amanda's desire for escape from her daily restrictions? *(1 Mark)*

IV. Fill in the blank to suitably complete the sentence: *(1 Mark)*

Amanda imagines herself as a mermaid because she wants to experience _____.

Q.7-B) All night the roots work
to disengage themselves from the cracks
in the veranda floor.
The leaves strain toward the glass
small twigs stiff with exertion
long-cramped boughs shuffling under the roof
like newly discharged patients
half-dazed, moving
to the clinic doors. (*The Trees* – Adrienne Rich)

I. What emotions are most appropriately conveyed by the phrases *"strain toward the glass"* and *"long-cramped boughs shuffling under the roof"*? *(1 Mark)*

i) struggle ii) excitement iii) freedom iv) exhaustion v) hope
Select the correct option.
A. i, iii, v
B. ii, iii, iv

C. i, ii, v
D. i, iv, v

II. Explain how the poet uses the image of *"newly discharged patients"* to convey the theme of the poem. *(2 Marks)*

III. Which line from the extract best suggests the idea of nature's desire to break free from human confinement? *(1 Mark)*

IV. Fill in the blank with a suitable phrase to complete the sentence: *(1 Mark)*
The poet presents the trees as a symbol of _____against restriction.

Q.8) Answer ***ANY FOUR*** of the following five questions, in about 40-50 words (4x3=12 Marks)

i) How did the postmaster and his employees respond to Lencho's letter, and what does it reveal about human compassion? (A Letter to God)

ii) What ideals motivated Nelson Mandela in his struggle against apartheid? (Nelson Mandela: Long Walk to Freedom)

iii) Write the appropriate response comprising of at least two reasons to present a counter to the following:
"Zoo should be banned. It's not right to keep animals this way". (A Tiger In The Zoo)

iv) The young seagull "failed to muster up courage to take that plunge".
How can the term "plunge" in the context of the young seagull's hesitation be interpreted both literally and metaphorically? Explain. (His First Flight)

v) What does Mijbil's behaviour suggest about the otter's adaptability to urban surroundings? (Mijbil the Otter)

Q.9) Answer ***ANY TWO*** of the following three questions, in about 40-50 words **(2x3=6 Marks)**

i) Validate the importance of small, fun learning tasks towards successful careers, in the context of Richard Ebright in 'The Making of a Scientist.'

ii) What transformation does Tricki undergo during his stay at Dr. Herriot's clinic? (A Triumph of Surgery)

iii) How does Bholi's character evolve by the end of the story? (Bholi)

Q.10) Answer **ANY ONE** of the following two questions, in about 100-120 words. (1x6=**6 Marks)**

i) Compare how **Valli** in '*Madam Rides the Bus'* and **Anne Frank** in 'From the Diary of Anne Frank' demonstrate courage and a desire for independence. How do their actions reflect their yearning for freedom and self-expression despite restrictions in their lives?

ii) Compare how the **boy** in '*The Ball Poem'* and the **Buddha** in **'***Sermon at Benares'* deal with loss and the impermanence of life. How do their experiences and teachings help in understanding the value of detachment and acceptance?

Q.11) Answer **ANY ONE** of the following two questions, in about 100-120 words

(1x6=**6 Marks)**

i) Describe the twist in the plot in 'The Midnight Visitor'. Analyse how Fowler's opinion of Ausable must have undergone a change after the plot twist.

ii) Trace the character arc of Think Tank focusing on his shift from arrogance to humility when he feels that he has underestimated earthlings. (The Book That Saved The Earth)

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