

**PM SHRI KENDRIYA VIDYALAYA , BOUDH**  
**HOLIDAY HOMEWORK MAY 2026**  
**CLASS-IX SUB- ENGLISH**

**PART- FILL IN THE BLANKS TYPE QUESTION**  
**NO. OF QUESTION -30**

**EXERCISE-1**

**PUT THE VERBS IN BRACKETS, INTO THE CORRECT FORM, FROM  
PRESENT PROGRESSIVE OR PRESENT SIMPLE.**

1. Look, a man (run) after the bus. He (want) to the bus.
2. She usually (sit) in the front row.
3. The yang-tse-kiang (flow) into the yellow sea.
4. Iron (expand) as temperature (rise)
5. I am sorry you can't see her. She (sleep) still. She usually (wake) much earlier.
6. You (see) the box ? It (contain) matches.
7. The train still (stand) in the station. You (think) we can just catch it?
8. Look at him! He (drink) up his medicine, But I can see that he (hate) it.
9. What your father (do)? He is a teacher, but he (not/work) at the moment.
10. You (have) no coat. You (shiver). I (think) you (catch) cold. But he (not/need) it is at the moment.

**EXERCISE-2**

**PUT THE VERBS IN THE MOST SUITABLE FORM , PRESENT  
PROGRESSIVE OR PRESENT SIMPLE.**

1. What time .....(the next train /leave ?
2. We .....( have) guests to night.
3. Did you see the notice on the notice board ? The annual examination ..... (Begin) on the 15<sup>th</sup> . They ..... (end) on 31<sup>st</sup> march and school (close) the same day for summer vacation .  
School..... (reopen) on 20<sup>th</sup> June.
4. The Prime Minister .....(arrive) in England ,  
..... (spend) a couple of days in London , then  
..... go to France.
5. Sidharth , Is it true that you .....(get) married next week.

6. Prakash , we .....(go) to town. ....(you/come) with us?
7. The industrial exhibition .....(open) on 3<sup>rd</sup> May and .....(finish ) on 15<sup>th</sup> July.
8. I..... (not/go) on an excursion next month because I haven` t got enough money. .... (You/go)?
9. What ..... (you/do) this evening ? ..... (you /go ) out?
10. I am sorry I cannot come. I .....shop all morning and .....(have) lunch in town.

### **EXERCISE -3**

#### **PUT THE VERBS IN THE MOST SUITABLE FORM , PAST PROGRESSIVE OR PAST SIMPLE.**

1. He was going to see a film but he .....(change) his mind.
2. When I .....(press) the button, the engine started.
3. What you .....(do) this time last year?
4. When they heard the noise, they ..... (Get up) quickly.
5. While my friend , .....(do) his homework , I .....(watch) television .
6. The postman always .....(put) your letters in my letter-box.
7. I .....(give) a lesson between two O` clock.
8. Who was that boy you .....(talk) to when I .....(pass) you in the street.
9. Last night I.....(read) in bed when suddenly I .....(hear) a scream.
10. I.....(break) a plate last night. I.....(do) the washing up when it.....(slip) out of my hand.

#### **PART- B SHORT ANSWER TYPE QUESTIONS ( 2 MARK)**

1. What made Triveni a popular writer?
2. Why did the grandmother depend upon her granddaughter to know the story?
3. Pick out two sentences which state that the grandmother was desperate to know what happened in the story.
4. Did the grandmother succeed in accomplishing her desire to read? How?
5. Why did the grandmother think of learning to read and write at the age of sixty-two?
6. Why was 'Kashi Yatre' grandmother's favourite novel ? Give two reasons to support your answer.

7. What is described in the novel, Kashi Yatre' ?
8. What were the obstacles the grandmother faced when she was a young girl?
9. Grandmother gave a gift to her granddaughter. What was that and why did she give it?
10. How does Krishtakka justify the touching of her granddaughter's feet ?

**PART- C QUESTIONS – FACTUAL DESCRIPTION OF A PERSON.IN  
ABOUT 120 WORDS NO QUESTIONS - 4**

Q1. Write the description of your 'best friend' using the following hints:

Name – address- family- personality- qualities- hobbies- behaviour towards others- how you feel about him.

Q2. Given below is some information about the security guard of your school. Write a factual description about the guard of your school based on the given information.

5'5"- Whitish complexion – black hair-Gurkha- 40 yrs old- high school passed- married- 3 children- alert, caring- expert flute player.

Q3. Write the description of your grandmother within 120 words.

Image of a grandmother have you in your mind , the reason company of your grandmother you cherish , the qualities you find in your grandmother , the qualities you admire most in your grandmother

Q4. Write the factual description of Albert Einstein using the given hints.

Hints: Born: 14th March 1879, Ulm, Germany – migrated to USA in 1933 after Nazi takeover of Germany – won Noble prize for theory of relativity- warned Roosevelt about destructive power of atom bomb- deeply shaken after bombing of Hiroshima and Nagasaki- advocated for world government – true world citizen.

**PART- D -LONG ANSWER TYPE QUESTION WITHIN 120-150 WORDS  
( 6 MARK) , NO QUESTIONS - 5**

Q1-You are the narrator in the story 'How I Taught My Grandmother to Read'. Write a letter to your friend telling him why you have decided to become a teacher. Write the letter in about 150 words.

Q2-Imagine, the neighbour of the grandmother is watching the teaching and learning experience between Avva and the granddaughter. She is very much astonished, and she writes a page in her diary about her experience of watching how learning at such an old age can be exciting. Prepare the diary entry.

Q3-Write the character sketch of the grandmother from the story 'How I taught My Grandmother To Read'.

Q4-The common belief is that God wishes us to serve him through his people, mankind. Do you agree with this faith? Justify your answer in context with the novel Kashi Yatra.

Q5-The best way to thank an illiterate person is to make him/her literate. Give your views on this opinion and justify them with reference to How I Taught My Grandmother to Read.

## PM SHRI KENDRIYA VIDYALAYA BOUDH

### HOME WORK OF SUMMER VACATION

विषय-हिंदी

कक्षा -9

कुल प्रश्न-50

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1. कहानी 'दो बैलों की कथा' के लेखक कौन हैं?

- (A) रवींद्रनाथ टैगोर
- (B) मुंशी प्रेमचंद
- (C) जयशंकर प्रसाद
- (D) हजारीप्रसाद द्विवेदी

2. कहानी के दो बैलों के नाम क्या थे?

- (A) राम और श्याम
- (B) काला और धौला
- (C) हीरा और मोती
- (D) बलराम और सुग्रीव

3. हीरा और मोती किसके बैल थे?

- (A) झूरी
- (B) गया
- (C) भैरो
- (D) मटरू

4. झूरी ने बैलों को किसके यहाँ भेजा था?

- (A) अपने मामा के
- (B) अपने भाई के

(C) अपने ससुराल (गया) के

(D) अपने पड़ोसी के

**5. गया के घर बैलों के साथ कैसा व्यवहार किया जाता था?**

(A) बहुत अच्छा

(B) क्रूर और कठोर

(C) उदासीन

(D) बड़े प्यार से

**6. बैल पहली बार गया के घर से भागकर कहाँ पहुँचे?**

(A) जंगल में

(B) झूरी के घर

(C) किसी अजनबी के खेत में

(D) नदी के किनारे

**7. मोती ने गया के घर की नाँद (चरनी) को क्यों तोड़ा?**

(A) भूख के कारण

(B) क्रोध और विद्रोह के कारण

(C) खेल-खेल में

(D) डर के कारण

**8. रास्ते में बैलों की मुलाकात किस जानवर से हुई जिसने उनसे सहानुभूति दिखाई?**

(A) कुत्ते से

(B) एक काँजीहौस की गाय से

(C) एक बकरी से

(D) एक छोटी लड़की से

**9. काँजीहौस क्या होता है?**

(A) एक बाजार

(B) जहाँ आवारा/लावारिस पशुओं को बंद किया जाता है

(C) एक गौशाला

(D) एक खेत

**10. काँजीहौस से निकलने में बैलों की मदद किसने की?**

(A) झूरी ने

(B) एक बूढ़ी गाय ने

(C) एक छोटी लड़की ने

(D) एक किसान ने

11. काँजीहौस से भागते समय मोती ने क्या किया?

- (A) दीवार तोड़ दी
- (B) दरवाजा खोल दिया
- (C) सभी जानवरों को जगाया
- (D) चौकीदार पर हमला किया

12. हीरा और मोती को दूसरी बार काँजीहौस में किसने डाला?

- (A) झूरी ने
- (B) गया ने
- (C) एक नीलगाय के खेत मालिक ने
- (D) पुलिस ने

13. काँजीहौस में बैलों को कितने दिन भूखा रखा गया?

- (A) एक दिन
- (B) तीन दिन
- (C) सात दिन
- (D) पंद्रह दिन

14. दोनों बैलों में किसे सबसे समझदार और चतुर माना जाता था?

- (A) हीरा को
- (B) मोती को
- (C) दोनों बराबर थे
- (D) कहानी में नहीं बताया

15. लेखक ने इस कहानी में बैलों के माध्यम से किस भाव को मुख्यतः व्यक्त किया है?

- (A) स्वाधीनता की चाह और मित्रता
- (B) मालिक की आज्ञाकारिता
- (C) कृषि का महत्व
- (D) धन का लालच

16. झूरी की पत्नी बैलों को क्यों पसंद नहीं करती थी?

- (A) वे उत्पाती थे
- (B) वे काम नहीं करते थे
- (C) वे बहुत खाना खाते थे
- (D) वे घर का सामान तोड़ते थे

17. काँजीहौस में एक सांड से लड़ाई में कौन घायल हुआ?

- (A) मोती
- (B) हीरा
- (C) दोनों
- (D) कोई नहीं

**18. मोती हीरा को काँजीहौस में अकेला छोड़कर क्यों नहीं भागा?**

- (A) उसे डर लगता था
- (B) वह मित्रता और वफ़ादारी के कारण रुका
- (C) उसे रास्ता नहीं मिला
- (D) उसे बाड़ तोड़ना नहीं आता था

**19. अंत में बैलों को घर कौन ले गया?**

- (A) गया
- (B) झूरी खुद
- (C) पुलिसकर्मी
- (D) झूरी का बेटा

**20. घर पहुँचने पर बैलों ने क्या किया?**

- (A) आराम किया
- (B) झूरी की पत्नी के हाथ चाटने लगे
- (C) सीधे खेत में चले गए
- (D) हर्ष से उछले और झूरी को चाटा

**21: 'क्या लिखूँ?' निबंध के लेखक कौन हैं?**

- (A) रामचंद्र शुक्ल
- (B) पदुमलाल पुन्नलाल बख्शी
- (C) जयशंकर प्रसाद
- (D) महादेवी वर्मा

**22: लेखक ने मानटेन की पद्धति को क्या माना है?**

- (A) सिद्धांतों का सख्ती से पालन करना
- (B) केवल छोटे वाक्यों का प्रयोग
- (C) जो कुछ देखा, सुना और अनुभव किया, उसे स्वच्छंद रूप से लिखना

(D) ऐतिहासिक तथ्यों पर आधारित लेखन

**23: निबंध रचना के लिए लेखक ने किन दो बातों को आवश्यक माना है?**

(A) व्याकरण और वर्तनी

(B) शब्द भंडार और अलंकार

(C) विषय का ज्ञान और लिखने की शैली (कल्पना)

(D) ऐतिहासिक और सामाजिक संदर्भ

**24: लेखक के अनुसार 'प्रगति' का अर्थ क्या है?**

(A) केवल आर्थिक विकास

(B) पुराने को छोड़कर नए की ओर बढ़ना

(C) अपनी संस्कृति को भूल जाना

(D) आधुनिक मशीनों का प्रयोग

**25 "दूर के ढोल सुहावने होते हैं" – इस कहावत का निबंध में क्या संदर्भ है?**

(A) संगीत की प्रशंसा करना

(B) वर्तमान की तुलना में अतीत का मोहक लगना

(C) शोर से दूर शांति की खोज

(D) ग्रामीण जीवन का चित्रण

**26: लेखक के अनुसार वृद्धों के लिए कौन सा समय सुखद होता है?**

(A) वर्तमान काल

(B) भविष्य काल

(C) अतीत (बीता हुआ समय)

(D) इनमें से कोई नहीं

**27: लेखक ने निबंध लिखने की किस शैली को सबसे कठिन माना है?**

- (A) वर्णनात्मक शैली
- (B) विचारात्मक शैली
- (C) संस्मरण शैली
- (D) व्यंग्यात्मक शैली

**28:** "सुधारवादी" और "परंपरावादी" के बीच मुख्य संघर्ष क्या है?

- (A) धन का बँटवारा
- (B) पुरानी परंपराओं को बनाए रखना बनाम नए बदलाव
- (C) राजनीतिक विचारधारा
- (D) साहित्यिक शैलियों का अंतर

**29:** पदमलाल पुन्नलाल बख्शी जी किस प्रसिद्ध पत्रिका के संपादक रहे थे?

- (A) हंस
- (B) सरस्वती
- (C) मर्यादा
- (D) प्रताप

**30** लेखक के अनुसार 'भविष्य' किसके लिए सुखद होता है?

- (A) वृद्धों के लिए
- (B) बालकों के लिए
- (C) युवाओं के लिए
- (D) संन्यासियों के लिए

लघु उत्तरीय 10 प्रश्न (Short Answer Questions)

**प्रश्न:1** कांजीहौस में कैद पशुओं की हाजिरी क्यों ली जाती होगी?

**प्रश्न:2** छोटी बच्ची को बैलों के प्रति प्रेम क्यों उमड़ आया?

**प्रश्न:3** गया ने हीरा और मोती को दोनों बार सूखा भूसा क्यों दिया?

**प्रश्न:4** हीरा और मोती ने सांड को कैसे हराया?

**प्रश्न:5** 'दो बैलों की कथा' से हमें क्या शिक्षा मिलती है?

**प्रश्न:6** लेखक के सामने निबंध लिखने की क्या समस्या थी?

**प्रश्न:7** 'अतीत' के प्रति वृद्धों और युवाओं के दृष्टिकोण में क्या अंतर है?

**प्रश्न:8** लेखक ने निबंध रचना के लिए किन दो शैलियों का उल्लेख किया है?

**प्रश्न:9** "दूर के ढोल सुहावने होते हैं" का पाठ के संदर्भ में क्या अर्थ है?

**प्रश्न:10** 'प्रगतिशील साहित्य' के बारे में लेखक के क्या विचार हैं?

## महत्वपूर्ण दीर्घ उत्तरीय 6 प्रश्न

**प्रश्न 1:** "दूर के ढोल सुहावने होते हैं" – इस पंक्ति का आशय स्पष्ट करते हुए लेखक के विचारों का विश्लेषण कीजिए।

**प्रश्न 2:** लेखक ने निबंध रचना के लिए किन कठिनाइयों और शैलियों का वर्णन किया है?

**प्रश्न 3:** 'क्या लिखूँ?' निबंध के आधार पर सुधारवाद और प्रगतिशीलता के बीच के संबंध को स्पष्ट कीजिए।

**प्रश्न 4:** हीरा और मोती के चरित्र की विशेषताओं का वर्णन कीजिए। वे एक-दूसरे के पूरक कैसे हैं?

**प्रश्न 5:** 'दो बैलों की कथा' स्वतंत्रता संग्राम की ओर किस प्रकार संकेत करती है?

**प्रश्न 6:** "स्वतंत्रता सहज नहीं मिलती, उसके लिए बड़ा मूल्य चुकाना पड़ता है।" इस कथन को कहानी के आधार पर स्पष्ट कीजिए।

## तर्क और विश्लेषण आधारित 4 प्रश्न (Critical Thinking)

**प्रश्न 1:** "वर्तमान का असंतोष ही भविष्य की प्रगति का आधार है।" पाठ के संदर्भ में इस कथन का विश्लेषण कीजिए।

प्रश्न 2: मान लीजिए आप एक लेखक हैं और आपको 'आधुनिक तकनीक: वरदान या अभिशाप' पर निबंध लिखना है। आप पाठ में वर्णित किस शैली (मानटेन की स्वच्छंद शैली या बेकन की सैद्धांतिक शैली) को चुनेंगे और क्यों?

प्रश्न 3: हीरा और मोती ने सांड को अकेले लड़ने के बजाय मिलकर हराया। यदि वे अलग-अलग लड़ते तो क्या होता? यह वर्तमान जीवन में 'टीम वर्क' के महत्व को कैसे दर्शाता है?

प्रश्न 4: "स्वतंत्रता का अधिकार केवल मनुष्यों का नहीं, पशुओं का भी है।" कांजीहौस की घटना के आधार पर इस कथन की पुष्टि कीजिए।

## PM SHRI KENDRIYA VIDYALAYA BOUDH

### HOME WORK OF SUMMER VACATION ग्रीष्मावकाशीय गृहकार्यम्

#### विषय:- संस्कृतम्

##### कक्षा- नवमी

- 1) धातुरूपलेखनं कण्ठस्थीकरणं च – भू, नम्, गम्, अस्, प्रच्छ्, कृ, ज्ञा, क्षाल्, नी (पञ्चलकारेषु)  
सेव्, लभ्, रूच् (लट्, लृट्)
- 2) शब्दरूपलेखनम् कण्ठस्थीकरणं च – बालक, कवि, साधु, भवत्, लता, नदी, फल, अस्मद्,  
युष्मद्, तत्, किम् (त्रिषुलिङ्गेषु)
- 3) पञ्च-अपठित- अनुच्छेदानां प्रश्नोत्तरलेखनम् LINK-  
<https://bandesamskrutamkvs.blogspot.com/2026/05/blog-post.html>
- 4) पञ्च- चित्रवर्णनम् कुरुत ।  
<https://bandesamskrutamkvs.blogspot.com/2026/05/1.html>
- 5) प्रथमपाठस्य पद्यं स्मृत्वा स्वपुस्तिकायां लिखत ।
- 6) सन्धेः नियमान् लिखित्वा तेषाम् त्रीणि उदाहरणानि लिखत ।  
(यथा- गुणसन्धिः- नियमः- अ/आ + इ/ई = ए, उदाहरणम्- नर + ईशः =  
नरेशः)
- 7) द्वितीयपाठस्य विशेष्य-विशेषणं चित्वा लिखत।
- 8) प्रतिदिनं संस्कृतपाठ्यपुस्तकस्य एकं पृष्ठम् (01 page) अवश्यं पठन्तु ।

संस्कृत-परियोजना-कार्यम् । [INDIVIDUAL]

ART INTEGRATED PROJECT

चित्राणि रचयत

(A3 size paper or in your drawing copy project- 1.picture in Front side & your name, section, Roll no. in backside)

कमपि एकं विषयम् आधृत्य चित्राणि रचयता( कोई एक विषय को आधार करके चित्र बनाए)

1. अर्थस्य महत्त्वम् 2. संस्कृतस्य महत्त्वम् 3. खुदिरामस्य जीवनवृत्तान्तः 4. कृतकबुद्धिः (AI)

**Instructions:**

i) All questions are compulsory.

ii) Answers should be written in the HW Sanskrit Note Book.

iii) Neat works are always appreciated.

\*\*\*\*\* शुभं भूयात् All the Best\*\*\*\*\*

**Class: IX | Subject: Mathematics**

Class IX Session 2026–27 | Subject: Mathematics Max. Marks: As per sections below

**SECTION A – Multiple Choice Questions [1 Mark Each × 25 = 25 Marks]**

Choose the correct option for each question:

**Q1.** Is the number 0.101001000100001... rational or irrational?

- (a) Rational (b) Irrational (c) Both rational and irrational (d) Neither rational nor irrational

**Q2.** Which of the following is a rational number between  $\sqrt{3}$  and  $\sqrt{5}$ ?

- (a)  $\sqrt{4} = 2$  (b)  $\pi$  (c)  $\sqrt{6}$  (d) 1.5

**Q3.** Every integer is a rational number. This statement is:

- (a) True (b) False (c) Sometimes true (d) Cannot be determined

**Q4.** Simplify:  $(\sqrt{5} + \sqrt{3})(\sqrt{5} - \sqrt{3})$

- (a) 2 (b) 8 (c)  $\sqrt{15}$  (d) 4

**Q5.** Express 0.6 in the form p/q:

- (a) 2/3 (b) 6/9 (c) 3/5 (d) 6/10

**Q6.** The decimal expansion of 7/8 is:

- (a) 0.875 (terminating) (b) 0.777... (non-terminating repeating) (c) 0.875... (non-terminating non-repeating) (d) 0.125

**Q7.** Identify the type of number:  $\sqrt{225}$

- (a) Irrational (b) Rational (= 15) (c) Neither rational nor irrational (d) Imaginary

**Q8.** In which quadrant does the point (-4, 5) lie?

- (a) Quadrant I (b) Quadrant II (c) Quadrant III (d) Quadrant IV

**Q9.** The y-coordinate of every point lying on the x-axis is:

- (a) 0    (b) 1    (c) Any real number    (d) Undefined

**Q10.** The coordinates of the origin are:

- (a) (1, 1)    (b) (0, 0)    (c) (1, 0)    (d) (0, 1)

**Q11.** The point (0, -7) lies on:

- (a) x-axis    (b) y-axis    (c) Quadrant III    (d) Quadrant IV

**Q12.** If A(3, 0) and B(-3, 0), the length of segment AB is:

- (a) 3 units    (b) 6 units    (c) 9 units    (d) 0 units

**Q13.** The mirror image of (-2, 3) across the x-axis is:

- (a) (2, 3)    (b) (-2, -3)    (c) (2, -3)    (d) (-2, 3)

**Q14.** If two lines intersect and one angle formed is  $65^\circ$ , the vertically opposite angle is:

- (a)  $25^\circ$     (b)  $115^\circ$     (c)  $65^\circ$     (d)  $90^\circ$

**Q15.** A linear pair of angles:

- (a) Are equal angles    (b) Are supplementary and adjacent angles forming a straight line  
(c) Are complementary angles    (d) Are vertically opposite angles

**Q16.** If  $\angle a : \angle b = 3 : 2$  and they form a linear pair, then  $\angle a$  and  $\angle b$  are:

- (a)  $108^\circ$  and  $72^\circ$     (b)  $90^\circ$  and  $90^\circ$     (c)  $60^\circ$  and  $120^\circ$     (d)  $100^\circ$  and  $80^\circ$

**Q17.** When two parallel lines are cut by a transversal, alternate interior angles are:

- (a) Supplementary    (b) Complementary    (c) Equal    (d) Adjacent

**Q18.** All squares are rhombuses. This statement is:

- (a) True    (b) False    (c) Only sometimes true    (d) Cannot be determined

**Q19.** The quadrilateral whose diagonals are perpendicular bisectors of each other is:

- (a) Rectangle    (b) Rhombus    (c) Trapezium    (d) Parallelogram

**Q20.** How many pairs of parallel sides does a trapezium have?

- (a) 0    (b) 1    (c) 2    (d) 3

**Q21.** Find the mode of: 4, 6, 4, 7, 8, 4, 9, 6

- (a) 6    (b) 4    (c) 7    (d) 9

**Q22.** The mean of 5 numbers is 18. Their sum is:

- (a) 18    (b) 23    (c) 90    (d) 36

**Q23.** Find the median of: 3, 7, 2, 9, 5

- (a) 5    (b) 7    (c) 3    (d) 9

**Q24.** A coin is tossed once. The probability of getting a Head is:

- (a) 0    (b) 1    (c)  $1/2$     (d)  $1/4$

**Q25.** A die is rolled. The probability of getting a number less than 3 is:

- (a)  $1/6$     (b)  $1/3$     (c)  $1/2$     (d)  $2/3$

**SECTION B – Short Answer Type Questions – I [2 Marks Each × 10 = 20 Marks]**

**Q26.** Find five rational numbers between  $3/5$  and  $4/5$ . Represent them on a number line.

**Q27.** Represent  $\sqrt{7}$  on the number line using a geometric construction. Show all steps.

**Q28.** Plot the points P(2, 3), Q(-2, 3), R(-2, -3) and S(2, -3) on a Cartesian plane. Name the figure formed and find the length of each side.

**Q29.** In the given figure, lines XY and MN intersect at O. If  $\angle POY = 90^\circ$  and  $a : b = 2 : 3$ , find the value of c.

**Q30.** In quadrilateral ABCD,  $AC = AD$  and AB bisects  $\angle A$ . Show that  $\triangle ABC \cong \triangle ABD$ . What can you say about BC and BD?

**Q31.** Find the area swept by the minute hand of a clock (length 14 cm) in 15 minutes. (Use  $\pi = 22/7$ )

**Q32.** A cuboidal box has dimensions 80 cm  $\times$  40 cm  $\times$  20 cm. Find its (i) Volume and (ii) Total Surface Area.

**Q33.** The weekly savings (in ₹) of Mala are: 20, 25, 30, 35, 40, 45. Identify if they form an AP. If yes, write the first term and common difference.

**Q34.** Rahul sells 3 tickets less than Meera. Together they sell 33 tickets. Setting up a linear equation in two variables, find the number of tickets sold by each.

**Q35.** Find the value of the polynomial  $P(x) = 50x^2 + x - 13$  at  $x = 2$ .

### SECTION C – Short Answer Type Questions – II [3 Marks Each $\times$ 5 = 15 Marks]

**Q36.** In a flower bed, there are 23 rose plants in the 1st row, 21 in the 2nd, 19 in the 3rd, and so on. (i) Identify the pattern. (ii) Find the number of rose plants in the 10th row. (iii) Is the sequence an AP? Write its first term and common difference.

**Q37.** Lines XY and MN intersect at O. If  $\angle POY = 90^\circ$  and  $a : b = 2 : 3$ , find c. Also prove that  $X + Y = W + Z$  implies AOB is a straight line.

**Q38.** A circular park has a radius of 21 m. A sector has a central angle of  $120^\circ$ . Find: (i) Length of the arc, (ii) Area of the sector, (iii) Perimeter of the sector. (Use  $\pi = 22/7$ )

**Q39.** A bakery owner records cupcakes sold in 10 days: 15, 18, 15, 20, 15, 22, 19, 15, 17, 21. Find (i) Mean, (ii) Median, (iii) Mode. Which measure best helps in daily production planning? Justify.

**Q40.** Vasudha travels x km by taxi. The initial fee is ₹30 and cost per km is ₹12. (i) Write a linear equation in two variables for the total fare y. (ii) Find the fare for 15 km. (iii) Represent the equation graphically by finding two solutions.

### SECTION D – Long Answer Type Questions [5 Marks Each $\times$ 2 = 10 Marks]

**Q41.** Ravi is helping his parents renovate their living room (Length = 6 m, Width = 5 m, Height = 3 m). There is 1 door (2 m  $\times$  1 m) and 2 windows (each 1.5 m  $\times$  1 m). (i) Calculate the total area of the four walls. (ii) Find the area that should NOT be painted (doors and windows). (iii) Find the actual area to be painted. (iv) If 1 litre of paint covers  $10 \text{ m}^2$ , how many litres are needed? (v) Find the area of the floor and the number of square tiles (50 cm  $\times$  50 cm) required to tile it.

**Q42.** A storage tank in a school is cuboid-shaped with length = 4 m, breadth = 3 m, height = 2 m. (i) Find the Total Surface Area of the tank. (ii) If the inside walls and base are to be painted, find the area to be painted. (iii) Find the capacity of the tank in cubic metres and in litres. (iv) A solid cube of side 2 m is cut into smaller cubes of side 0.5 m. How many smaller cubes are formed? (v) Compare the total surface areas of the original cube and all smaller cubes. Explain why the surface area changes but volume remains the same.

### SECTION E – Competency Based / Case Study Questions [4 Marks Each $\times$ 3 = 12 Marks]

**Q43.** Case Study – Sports Day Planning

The school sports day committee has laid out the sports field on a coordinate grid with origin (0, 0) at the centre. Locations: Equipment room at (3, 4), Starting line at (-2, 0), Medical tent at (-4, -3), Water station at (2, -5).

(i) Which facility is located in Quadrant III? [1]

(ii) Does the starting line lie in a quadrant or on an axis? Which one? [1]

(iii) If a student walks from the origin to the equipment room, how many units right and how many units up does she travel? [1]

(iv) Write the coordinates of the point that mirrors the water station across the x-axis. [1]

**Q44. Case Study – Class Test Performance**

A teacher records marks (out of 10) of 20 students in a Maths test: 5, 5, 3, 4, 6, 3, 7, 8, 6, 8, 5, 4, 6, 9, 10, 5, 4, 7, 6, 5.

(i) Prepare a frequency distribution table for the data. [1]

(ii) Find the Mode of the marks. [1]

(iii) Find the Median of the marks. [1]

(iv) Find the Mean of the marks and state which measure best represents the class performance. Justify. [1]

**Q45. Case Study – Supermarket Bill Investigation**

Radha purchases items from a supermarket: Oil – ₹120, Rice – ₹80.50, Discount – ₹12.75, Tax – ₹5/4 (i.e., ₹1.25). Weight of apples: 1.75555... kg; Weight of oranges: 2.3482731632... kg.

(i) Identify which of the above numbers are rational and which are irrational. [1]

(ii) Write all rational numbers in p/q form. [1]

(iii) Classify the numbers as: (a) terminating decimals, (b) non-terminating repeating, (c) non-terminating non-repeating. [1]

(iv) A coin is tossed and a die is rolled simultaneously. What is the probability of getting a Head and an even number? [1]

**ART INTEGRATED PROJECTS – Submit on A4 Sheet Paper**

**Project I: Mathematical Rangoli using Coordinates**

Objective: Design a symmetric Rangoli pattern using coordinate geometry and plot it on a grid.

Materials Required: Graph paper / A3 sheet, pencil, compass, ruler, coloured pens/sketch pens.

**Steps to Follow:**

1. Draw a Cartesian plane on graph paper (scale: 1 cm = 1 unit; range –10 to 10 on both axes).
2. Mark at least 20 symmetric key-points (in all four quadrants) that will form the outline of your Rangoli.
3. Connect the points with straight lines and curves to create a beautiful symmetric pattern.
4. Colour the pattern using at least four different colours reflecting Indian festive art.
5. On the side, list all coordinates used with their quadrant names.

*Written Report (attach with the artwork): (i) List all coordinates. (ii) Identify which points are mirror images across axes. (iii) Mention the line(s) of symmetry of your design.*

**Assessment Criteria: Accuracy of plotting (2 marks) | Symmetry & creativity of design (2 marks) | Written report (2 marks).**

**Project II: Algebraic Identities through Warli / Madhubani Art**

Objective: Represent algebraic identities visually using the traditional Indian art forms of Warli or Madhubani.

**Identities to depict (any 3 of the following):**

- $(a + b)^2 = a^2 + 2ab + b^2$
- $(a - b)^2 = a^2 - 2ab + b^2$
- $a^2 - b^2 = (a+b)(a-b)$
- $(a+b+c)^2 = a^2+b^2+c^2+2ab+2bc+2ca$

**Steps to Follow:**

1. Choose Warli (geometric tribal motifs in black/white/red) OR Madhubani (vibrant floral/folk motifs).
2. Draw a large square of side  $(a + b)$  for the identity  $(a + b)^2$  using Warli/Madhubani borders and motifs.
3. Inside the square, divide it into sections representing  $a^2$ ,  $2ab$  and  $b^2$ ; label and decorate each section in the art style.
4. Similarly represent the other two chosen identities on separate sections of the chart.
5. Write the algebraic identity below each figure with a numerical verification (take  $a = 3$ ,  $b = 2$  or similar).

**Assessment Criteria: Correct geometric representation of identities (3 marks) | Artistic quality in chosen folk-art style (2 marks) | Numerical verification (1 mark).**

**PORTFOLIO ACTIVITY – Ganit Manjari (Class IX) – Submit as a decorated portfolio booklet****Portfolio: My Mathematical Journey**

Prepare a Portfolio Booklet using activities from the Ganit Manjari – Class IX book. The portfolio should be in an A4 notebook / folder with a decorative cover page. Include the following sections:

**Section 1 – Cover Page**

Design a decorative cover titled 'My Mathematics Portfolio – Class IX'. Include your name, class, roll number, school name and an original mathematical doodle / drawing.

**Section 2 – Number Play (Ganit Manjari Activity)**

Complete the 'Rational Number Card Activity' from Ganit Manjari: write any 10 rational numbers on index cards, arrange them in ascending order on a number line strip, and paste the strip in your portfolio. Write one real-life situation for each of 5 chosen rational numbers.

**Section 3 – Pattern Puzzles (Ganit Manjari Activity)**

Record the matchstick / dot pattern activities from Ganit Manjari. For each pattern: draw the first 5 terms, write the number sequence, identify whether it is an AP, and state the first term ( $a$ ) and common difference ( $d$ ).

**Section 4 – Exploring Shapes**

Using Ganit Manjari's 'Shapes around Us' activity: collect / draw 5 real-life objects for each of the following – triangles, quadrilaterals, and circles. For each shape, state its properties and calculate one measurement (perimeter or area) using actual or estimated dimensions.

**Section 5 – Data in My Life**

Conduct a mini survey: record the number of hours 10 classmates spend studying daily. Present the data in a frequency table, calculate Mean, Median and Mode, draw a bar graph, and write a 3-sentence conclusion.

**Section 6 – My Reflection**

Write 8–10 sentences reflecting on: (i) Which mathematical concept did you find most interesting and why? (ii) Where do you see mathematics in your daily life? (iii) One concept you found challenging and how you overcame it.

**PM SHRI KENDRIYA VIDYALAYA BOUDH**  
**SUMMER VACATION HOME WORK, 2026-27**

**CLASS- IX**

**SCIENCE**

**SUB TEACHER- S. SETH**

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**Instructions: Do in the HOMEWORK NOTE.**

**Section A- MCQs (1 Mark Each)**

- 1) Matter is anything that:  
a) has no mass    b) occupies space and has mass    c) is invisible    d) cannot be touched
- 2) The smallest unit of matter is:  
a) cell    b) atom    c) molecule    d) particle
- 3) Diffusion occurs fastest in:  
a) solids    b) liquids    c) gases    d) plasma
- 4) Which state of matter has fixed shape and volume?  
a) liquid    b) gas    c) solid    d) plasma
- 5) Sublimation is:  
a) solid → liquid    b) liquid → gas    c) solid    d) gas → liquid
- 6) Which force pulls objects towards Earth?  
a) magnetic    b) friction    c) gravitational    d) muscular
- 7) SI unit of force is:  
a) Joule    b) Newton    c) Pascal    d) Watt
- 8) Force can:  
a) change shape    b) change speed    c) change direction    d) all of these
- 9) Pressure =  
a) Force × Area    b) Force / Area    c) Area / Force    d) Mass × Force
- 10) The basic unit of life is:  
a) tissue    b) organ    c) cell    d) atom
- 11) Outermost layer in plant cell;  
a) Cell membrane    b) Cell wall    c) nucleus    d) nuclear membrane
- 12) The control center of the cell is:  
a) cytoplasm    b) nucleus    c) membrane    d) ribosome
- 13) Plant cells have:  
a) cell wall    b) no nucleus    c) no membrane    d) no cytoplasm

14) Osmosis is movement of:

- a) solute      b) water      c) gas      d) solid

15) Hypertonic solution causes cell to:

- a) swell      b) shrink      c) burst      d) divide

16) SI unit of length:

- a) meter      b) gram      c) second      d) litre

17) SI unit of time:

- a) minute      b) hour      c) second      d) day

18) Motion is defined as:

- a) change in colour      b) change in position  
c) change in mass      d) change in shape

19) Speed =

- a) distance  $\times$  time      b) distance / time      c) time / distance      d) mass  $\times$  speed

20) Velocity includes:

- a) speed only      b) direction only      c) speed and direction      d) mass

21) Acceleration is:

- a) change in velocity      b) change in mass      c) change in energy      d) none

22) Chromosomes are made up of

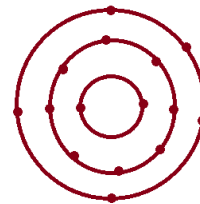
- (a) DNA      (b) Protein      (c) DNA and protein      (d) ATP

23) What is the valence electron for Magnesium?

- (a) 8      (b) 2      (c) 2, 8, 2      (d) 0

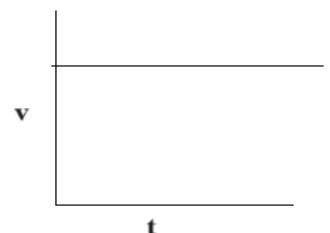
24) What could be the element from figure given below?

- a) Al      b) P      c) Si      d) Mg



25) From the given  $v - t$  graph, it can be inferred that the object is:

- (a) in uniform motion      (b) at rest  
(c) in non-uniform motion      (d) moving with uniform acceleration



- 26) Which type of quantity is acceleration?  
(a) Scalar (b) Vector (c) Both Scalar and Vector (d) Neither Scalar nor Vector
- 27) Balanced forces:  
a) change motion b) don't change motion c) create energy d) stop motion
- 28) Unbalanced forces:  
a) no change b) change motion c) equal forces d) no force
- 29) Unit of pressure:  
a) Newton b) Pascal c) Joule d) Watt
- 30) Mass of Calcium:  
a) 38 b) 20 c) 40 d) 35.5

**Section- B - 10 Questions (2 Marks Each)**

- 31) i) Define displacement.  
ii) Write its SI unit?  
iii) Which type of quantity is this?
- 32) In a mother cell, there are 100 chromosomes. How many chromosomes would be there in the daughter cell during the division through- a) Meiosis b) Mitosis
- 33) Madhab, while driving to school, computes the average speed for his trip to be 40 km/h. On his return trip along the same route, there is less traffic and the average speed is 60 km/h. What is the average speed for Madhab's trip?
- 34) Observe figure and answer.



If you started your journey from A and moved to B and then to D through C and came back to B along same path. Find out Distance and Displacement.

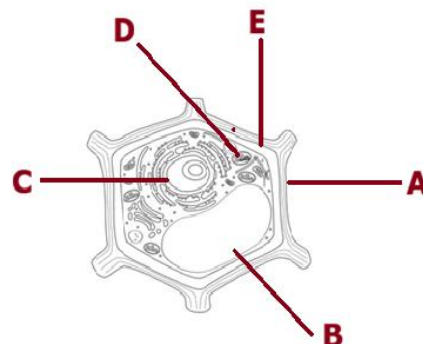
- 35) State Newton's 1<sup>st</sup> law of motion. Give one example.
- 36) Draw flower and marks its parts.
- 37) Write difference between scalar and vector quantity.
- 38) Define osmosis and diffusion.
- 39) What is speed?
- 40) Write difference between unicellular and multicellular organism.

### **Section C- 10 Questions (3 Marks Each)**

- 41) Study the table and answer:
- What is the atomic no of X, Y, Z?
  - What is the mass no of X, Y, Z?
  - Draw EDS for X & Z.

Elements	Protons no.	Electrons no.
X	14	
Y		9
Z	13	

- 42) Observe figure and answer the following:
- Name the figure.
  - Identify A, B, C, D, E.
  - By which substance part A is made up of ?



- 43) State effects of force (any three).
- 44) Explain gravitational force.
- 45) Differentiate plant cell and animal cell (any 3 points).
- 46) Explain hypotonic, hypertonic and isotonic solutions.
- 47) Define velocity and acceleration with examples.
- 48) i) Define atomic mass and atomic number.  
ii) Draw EDS for AL, Si, Ar, K
- 49) State Newton's 2<sup>nd</sup> law of motion and derive its equation.
- 50) Differentiate balanced and unbalanced forces.

### **Section- D- 3 Questions (5 Marks Each)**

- 51) Design a simple scientific model for the following situation: A student drops a heavy book from a height of 2 metres.
- What quantities would you include in your model?
  - What would you ignore and why?
  - How would you make the model more complex if needed?
  - What prediction could you make using your model?
- 52) Describe structure and functions of an animal cell with labelled diagram.
- 53) i) Vishnu swims in a 90m long pool. He covers 180m in one minute by swimming from one end to the other and back along the same straight path. Find the average speed and average velocity of Vishnu.
- ii) A train travels some distance with a speed of 30km/h and returns with a speed of 60 km/h . Calculate the average Speed.

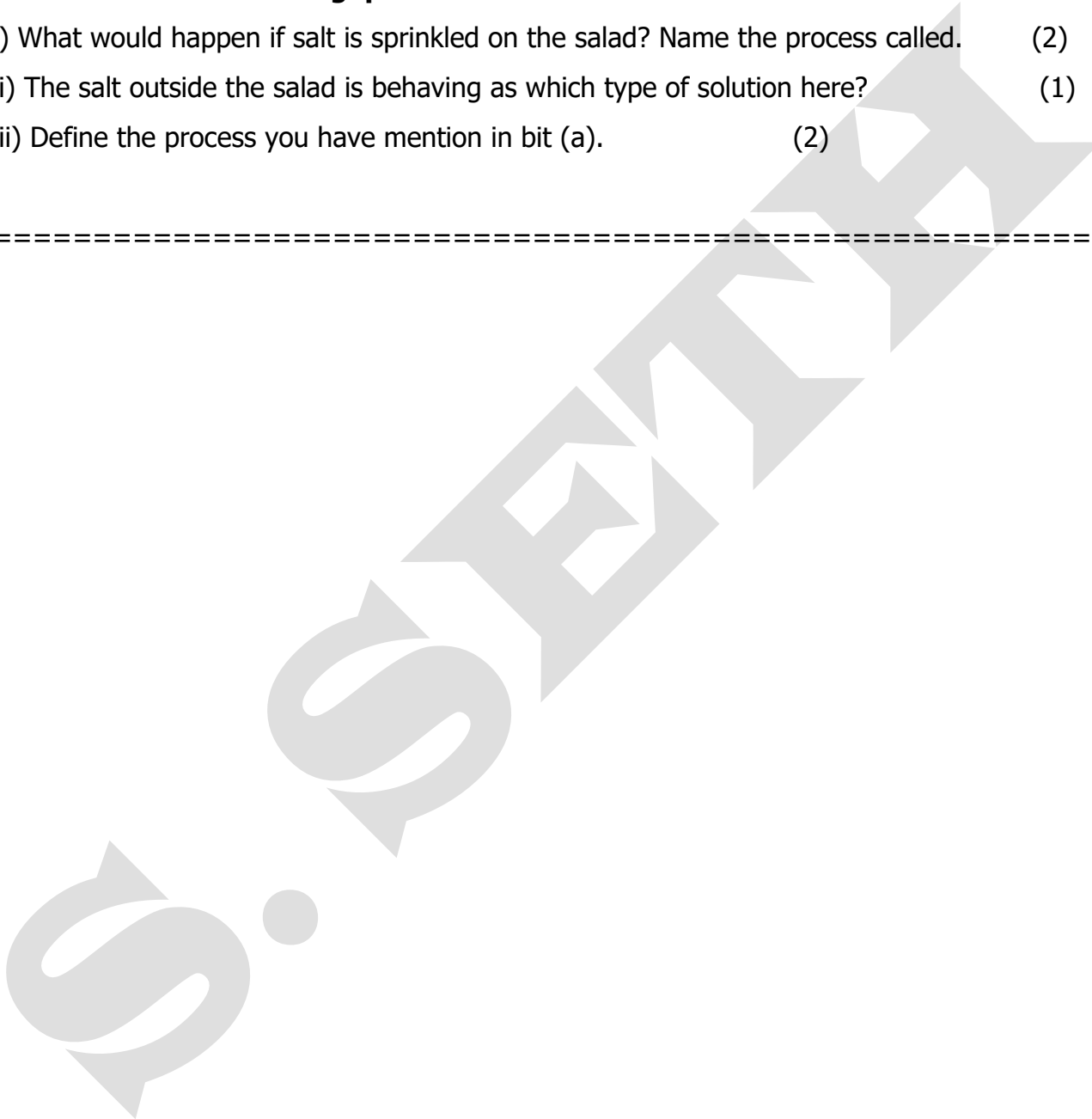
**Section- E- CBO (Case-Based Question)**

54) Veena was helping his mother in laying the table when they had some guest for dinner. Veena was about to sprinkle salt on salad for dressing. Her mother stopped her from doing so and told her that it is too early to sprinkle salt on the salad, she should do so only when they are seated for having the dinner.

**Answers for the following questions:**

- i) What would happen if salt is sprinkled on the salad? Name the process called. (2)
- ii) The salt outside the salad is behaving as which type of solution here? (1)
- iii) Define the process you have mention in bit (a). (2)

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**PM SHRI KENDRIYA VIDYALAYA BOUDH**  
**HOLIDAY HOMEWORK FOR SUMMER VACATION.**  
**CLASS-9 ( Session: 2026-27)**

**SECTION A: Multiple choice questions:**

1. A student connects rising unemployment with government policy and past economic trends. This shows:

- a) Memorization.    b) Interdisciplinary thinking.    c) Guesswork.    d) Isolation of subjects

2. A disaster management team studies landforms, rainfall, and population. This reflects:

- a) Single subject learning.    b) Integrated social science approach.    c) Only geography.    d) Only civics

3. If historical data is ignored while planning cities, what is the likely impact?

- a) Better planning.    b) Repetition of past mistakes.    c) Faster development.    d) No change

4. A policy fails because it ignores people's needs. Which discipline was neglected?

- a) Geography.    b) Economics.    c) Civics.    d) History

5. Which situation shows use of social science in daily life?

- a) Learning formulas.    b) Understanding election outcomes.    c) Solving equations.    d) Drawing diagrams

6. A farmer studies rainfall patterns over 20 years. This is an example of:

- a) Weather study.    b) Climate analysis.    c) Daily observation.    d) Short-term change

7. Sudden rainfall and storm in a city represent:

- a) Climate.    b) Season.    c) Weather.    d) Environment

8. Which statement best explains climate?

- a) Daily temperature.    b) Hourly wind speed.    c) Long-term atmospheric pattern.    d) Sudden rainfall

9. If a region becomes hotter over decades, it indicates:

- a) Weather fluctuation.    b) Climate change.    c) Seasonal shift.    d) Local wind

10. A government studies both economic growth and environmental impact. This reflects:

- a) Narrow thinking.    b) Balanced development.    c) Ignorance.    d) Isolation

11. A sudden drop in temperature overnight is an example of:

- a) Weather.    b) Climate.    c) Season.    d) Trend

12. Which factor contributes MOST to climate change?

- a) Earth's rotation.    b) Soil erosion.    c) Human activities.    d) Ocean tides

13. Which situation BEST shows critical thinking in social science?

- a) Memorizing dates.    b) Learning definitions.    c) Copying answers.    d) Linking past and present events

14. If people cannot participate in decision-making, which issue arises?

- a) Equality.    b) Lack of representation.    c) Development.    d) Growth

15. Why is weather forecasting important for farmers?

- a) For entertainment.    b) For planning crops.    c) For exams.    d) For history

16. A city faces floods every year due to poor planning. What was ignored?

- a) Historical data.    b) Mathematics.    c) Language.    d) Art

17. Which action helps reduce climate change?

- a) Burning fossil fuels.    b) Using renewable energy.    c) Deforestation.    d) Pollution

18. Which is an example of climate?

- a) Rain today.    b) Storm yesterday.    c) Average rainfall over years.    d) Wind this hour

19. A student studies migration patterns due to drought. This involves:

- a) Only geography.    b) Only economics.    c) Multiple disciplines.    d) No subject

20. If glaciers melt over many years, it indicates:

- a) Weather.    b) Climate change.    c) Season.    d) Local wind

21. Which situation shows misuse of resources?

- a) Sustainable farming.    b) Recycling.    c) Planting trees    d) Overuse of fossil fuels

22. Why is long-term climate data important?

- a) For daily planning.    b) For understanding trends.    c) For short-term prediction.    d) For entertainment

23. Which discipline helps understand government policies?

- a) Geography.    b) Civics.    c) History.    d) Economics

24. A rise in sea level over decades shows:

- a) Weather.    b) Season.    c) Climate change.    d) Daily variation

25. Which situation BEST shows environmental awareness?

- a) Ignoring pollution.    b) Conserving resources.    c) Cutting forests.    d) Burning waste

26. A country ignores environmental damage for economic growth. What is the likely outcome?

- a) Sustainable future.    b) Environmental crisis.    c) No impact.    d) Balanced growth

There are two statements- ASSERTION AND REASON. Read carefully and answer the following questions. (Q.27-Q.30).

**Options:** (a) Both A and R are true, and R is the correct explanation of A

(b) Both A and R are true, but R is not the correct explanation of A

(c) A is true, but R is false

(d) A is false, but R is true

27. Assertion (A): Social science helps individuals make informed decisions in society.

Reason (R): It studies human behaviour, institutions, and interactions in different contexts.

28. Assertion (A): Changes in atmospheric conditions can directly affect human activities.

Reason (R): The atmosphere controls weather patterns and climate variations.

29. Assertion (A): Human activities have no significant role in climate change.

Reason (R): Industrialization and deforestation increase greenhouse gas concentration.

30. Assertion (A): Interdisciplinary approaches are important in studying social science topics.

Reason (R): Social issues are complex and cannot be understood through a single discipline.

### **SECTION B: 2 Marks Questions (Application-Based)**

31. A city plans development without studying its past flood records.

What problem may arise? Which discipline was ignored?

32. A student checks daily temperature to decide what to wear.

Is this weather or climate? Give reason.

33. Farmers observe rainfall patterns over many years before selecting crops.

What concept are they using? Why is it useful?

34. A government policy fails because it ignores people's opinions.

Which aspect of social science is missing?

35. A sudden storm damages crops in a region.

Is this weather or climate? Justify.

36. A region experiences increasing temperatures over 25 years. What does this indicate?

37. A country focuses only on economic growth but ignores environmental changes.

What problems may arise in the future?

38. Why is it important to study social science as an integrated subject rather than separate disciplines?

39. How can students contribute to reducing climate change in their daily lives?

40. Compare weather and climate using an example. Why is this distinction important?

**SECTION C: 3 Marks Questions**

41. A town faces water scarcity. Experts study rainfall, population growth, and water usage.

Why is an interdisciplinary approach needed? Name any two disciplines involved.

42. A farmer depends only on daily weather reports and ignores long-term patterns.

What mistake is he making? What should he consider instead?

43. A country experiences frequent floods due to deforestation. Explain the link between human activity and climate.

44. Students study elections, economic conditions, and environmental issues together.

What skill are they developing? Why is it important?

45. Compare a sudden rainfall event with increasing rainfall over decades.

What do they represent? Why is the difference important?

**SECTION D: 5 Marks Questions (HOTs)**

46. A region is facing irregular rainfall, rising temperatures, and crop failures. Experts analyze weather data, economic losses, and government policies.

What issue is being studied? Why is social science important in this situation?

47. A government focuses only on economic growth and ignores environmental concerns.

What long-term problems may arise? How can a balanced approach help?

48. Explain why understanding social science as an integrated subject is important for solving environmental issues.

49. A coastal area has seen rising sea levels over 30 years. People are migrating, and livelihoods are affected.

What type of change is this? How does it impact society?

50. A student says, "Weather and climate are the same because both involve temperature and rainfall."

Do you agree? Justify with examples.

...THE END...