

HALF-YEARLY (SAMPLE PAPER– 2026-27) (SET– B)

CLASS - IX

SUBJECT – MATHEMATICS (041)

TIME: 3 HOURS

M.M.: 80

General Instructions:

- This question paper contains 5 sections: A, B, C, D, and E. There are 38 questions in total. All questions are compulsory.
- Section A comprises 20 Multiple Choice Questions (MCQs) carrying 1 mark each. (Questions 19 and 20 are Assertion-Reason based).
- Section B comprises 5 Very Short Answer (VSA) type questions carrying 2 marks each. Internal choice is provided in two questions.
- Section C comprises 6 Short Answer (SA) type questions carrying 3 marks each. Internal choice is provided in two questions.
- Section D comprises 4 Long Answer (LA) type questions carrying 5 marks each. Internal choice is provided in two questions.
- Section E comprises 3 Case-Study based integrated units of assessment carrying 4 marks each with sub-parts.

SECTION A - Multiple Choice Questions (20 × 1 = 20 Marks)

Q1. In which quadrant does the point (4, -2) lie?

- (A) First Quadrant (B) Second Quadrant (C) Third Quadrant (D) Fourth Quadrant

Q2. If $P(x) = 5x - 10$ is a linear polynomial, then its zero is:

- (A) 2 (B) -2 (C) 5 (D) 10

Q3. Which of the following is a rational number?

- (A) $\sqrt{3}$ (B) $\sqrt{9}$ (C) π (D) $\sqrt{5}$

Q4. The correct expansion of $(a + b)^3$ is:

- (A) $a^3 + b^3 + 3ab(a+b)$ (B) $a^3 - b^3 - 3ab(a-b)$ (C) $a^3 + b^3 - 3ab(a+b)$ (D) $a^3 - b^3 + 3ab(a+b)$

Q5. If the diameter of a circle is 14 cm, then its circumference is:

- (A) 22 cm (B) 44 cm (C) 88 cm (D) 154 cm

Q6. A fair dice is rolled once. What is the probability of getting an odd number?

- (A) $1/6$ (B) $1/3$ (C) $1/2$ (D) $2/3$

Q7. What is the common difference of the AP: 10, 7, 4, 1, ...?

- (A) 3 (B) -3 (C) 0 (D) 1

Q8. The abscissa (x-coordinate) of any point lying on the Y-axis is always:

- (A) 1 (B) -1 (C) 0 (D) Any real number

Q9. The value of the polynomial $x^2 - 5x + 6$ at $x = 3$ is:

- (A) 0 (B) 6 (C) 3 (D) -2

Q10. The number 0.6666... can be expressed in the p/q form as:

- (A) $\frac{2}{3}$ (B) $\frac{6}{10}$ (C) $\frac{1}{3}$ (D) $\frac{66}{100}$

Q11. If $(x - 1)$ is a factor of the polynomial $x^2 + kx - 5$, then the value of k is:

- (A) 4 (B) -4 (C) 2 (D) -2

Q12. The side of a square field is 8 cm. Its area is:

- (A) 32 cm^2 (B) 64 cm^2 (C) 16 cm^2 (D) 24 cm^2

Q13. The probability of an impossible event is always:

- (A) 0 (B) 0.5 (C) 1 (D) -1

Q14. In an AP, if $a = 5$ and $d = 2$, then its 3rd term is:

- (A) 7 (B) 9 (C) 11 (D) 13

Q15. The distance of the point $(-4, 3)$ from the origin is:

- (A) 3 units (B) 4 units (C) 5 units (D) 7 units

Q16. If $x + \frac{1}{x} = 3$, then the value of $x^2 + \frac{1}{x^2}$ is:

- (A) 9 (B) 7 (C) 11 (D) 6

Q17. Which of the following is an terminating decimal expansion?

- (A) $\frac{1}{3}$ (B) $\frac{1}{7}$ (C) $\frac{1}{4}$ (D) $\frac{2}{11}$

Q18. The degree of a non-zero constant polynomial is:

- (A) 0 (B) 1 (C) 2 (D) Not defined

Directions for Q19-Q20: In the following questions, a statement of Assertion (A) is followed by a statement of Reason (R). Choose the correct option.

- (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.

Q19. Assertion (A): The point $(-2, 0)$ lies on the X-axis.

Reason (R): The y-coordinate of any point on the X-axis is always zero.

Q20. Assertion (A): The probability of throwing a number greater than 6 on a single die is 0.

Reason (R): An event which is impossible to happen has a probability of 0.

SECTION B - Very Short Answer Questions ($5 \times 2 = 10$ Marks)

Q21. Plot and identify the quadrants for points $M(-1, 4)$ and $N(3, -2)$ in the Cartesian plane.

Q22. Find the cost of fencing a square park of side 50 m at the rate of ₹20 per meter.

Q23. Show that 0.2222... can be expressed in the form $\frac{p}{q}$ where p and q are integers.

OR

Simplify: $(\sqrt{5} + \sqrt{2})(\sqrt{5} - \sqrt{2})$

Q24. A coin is tossed 100 times with the following frequencies: Head: 45, Tail: 55. Compute the probability for each event.

Q25. Write the next four terms of the AP whose first term is 10 and common difference is -3.

OR

Find the 10th term of the AP: 2, 7, 12, ...

SECTION C - Short Answer Questions (6 × 3 = 18 Marks)

Q26. Expand using a suitable identity: $(x + 2y + 4z)^2$

Q27. Check whether polynomial $q(t) = 4t^3 + 4t^2 - t - 1$ is a multiple of $2t + 1$.

OR

Factorize: $x^3 - 23x^2 + 142x - 120$

Q28. Find the area of a triangle, two sides of which are 8 cm and 11 cm and the perimeter is 32 cm.

Q29. A die is thrown 1000 times with frequencies for outcomes 1 to 6 as follows: 1: 179, 2: 150, 3: 157, 4: 149, 5: 175, 6: 190. Find the probability of getting an outcome less than 3.

OR

Find the probability of selecting a vowel from the letters of the word 'MATHEMATICS'.

Q30. Subba Rao started work in 1995 at an annual salary of ₹5000 and received an increment of ₹200 each year. In which year did his income reach ₹7000?

Q31. Draw a triangle joining points A(0,0), B(4,0), and C(0,3) on a graph sheet and calculate its perimeter.

SECTION D - Long Answer Questions (4 × 5 = 20 Marks)

Q32. If $a + b + c = 6$ and $a^2 + b^2 + c^2 = 14$, evaluate $ab + bc + ca$ and $a^3 + b^3 + c^3 - 3abc$.

OR

Factorize using Factor Theorem: $2y^3 + y^2 - 2y - 1$

Q33. A path 2.5 m wide runs all around the outside of a circular garden whose radius is 14 m. Find the cost of paving this path at ₹150 per sq meter.

Q34. The sum of the 4th and 8th terms of an AP is 24 and the sum of the 6th and 10th terms is 44. Find the first three terms of the AP.

OR

Find the sum of the first 40 positive integers divisible by 6.

Q35. Show step-by-step how to represent the real number $1.\overline{245}$ in fractional form. Also show that the product of a non-zero rational number with an irrational number is always irrational.

SECTION E - Case Study Based Questions (3 × 4 = 12 Marks)

Q36. A civic agency maps a city area onto a grid. An office building is placed at origin O(0,0), a bank at B(3,4), and a fire station at F(-4,3).

1. Write down the distance of Bank from Office using formula.

(1 Mark)

2. Which quadrant is the fire station located in?

(1 Mark)

3. If a hospital needs to be constructed exactly at the midpoint of Bank and Fire Station, find its coordinates.

(2 Marks)

Q37. A water tank is draining out at a steady monitored rate. The volume of water left inside (in liters) is given by $V(t) = -5t + 100$, where t is time in minutes.

1. Find the initial volume of water when tracking started. **(1 Mark)**
2. At what value of t does the polynomial evaluate to zero? **(1 Mark)**
3. Find the volume left at 12 minutes. How long does it take to leave exactly 40 liters inside? **(2 Marks)**

Q38. A student starts stacking wooden building blocks to form a stable tower pyramid. The top row has 2 blocks, second row has 5 blocks, third row has 8 blocks, and so on.

1. Confirm if this sequence forms an AP and state its parameters. **(1 Mark)**
2. How many blocks will be required for the 10th row from the top? **(1 Mark)**
3. If the student has a total box of 155 blocks, how many complete rows can be formed? **(2 Marks)**

SAMPLE PAPER– 2026-27(SET–B)

CLASS - IX

SUBJECT – INFORMATION TECHNOLOGY (402)

TIME: 2 HOURS

M.M.: 50

General Instructions:

1. Please read the instructions carefully.
2. This Question Paper consists of **46 questions** in two sections: **Section A & Section B**.
3. **Section A** has Objective-type questions, whereas **Section B** contains Subjective-type questions.
4. Out of the given 46 questions, a candidate has to answer 34 questions in the allotted (maximum) time of 2 hours.
5. All questions of a particular section must be attempted in the correct order.
6. **SECTION A – OBJECTIVE TYPE QUESTIONS (24 Marks):**
 - I. This section has 30 **questions**.
 - II. A candidate has to attempt **24 questions**.
 - III. Marks allotted are mentioned against each question/part.
 - IV. Do as per the instructions given.
7. **SECTION B – SUBJECTIVE TYPE QUESTIONS (26 Marks):**
 - I. This section has **16 questions**.
 - II. A candidate has to attempt **10 questions**.
 - III. Do as per the instructions given.
 - IV. Marks allotted are mentioned against each question/part.

SECTION A: OBJECTIVE TYPE QUESTIONS (24 Marks)

Answer any 4 out of the given 6 questions.

(1x4=4 marks)

1. What does non-verbal communication include?
 - a. Speech clarity
 - b. Body language
 - c. Written messages
 - d. Grammar rules
2. Which of these is an example of self-management?
 - a. Blaming others for mistakes
 - b. Setting personal goals
 - c. Ignoring deadlines
 - d. Overloading tasks
3. In the communication process, encoding takes place at the ____ end.
 - a. receiver
 - b. in case of disturbance
 - c. within the message
 - d. sender
4. In which communication style : body language, gestures, facial expressions are used to convey information to others?
 - a. Verbal.
 - b. Non - verbal
 - c. written
 - d. expression-less
5. An ability to control your behavior and discipline is called as _____.
 - a. Self-awareness
 - b. Self confidence
 - c. Self-control
 - d. Self-care
6. Which of the following is not considered to be the quality of self-confident people?
 - a. Self-belief
 - b. Hard work
 - c. commitment
 - d. negative attitude

Answer any 5 out of the given 6 questions.

(1x5=5 marks)

7. ____ refers to the facts or raw material, which are processed to get the information.
 - a. Information
 - b. Data
 - c. Input
 - d. Processed Data
8. Which of the following is an example of IT application in **education**?
 - a. Online banking
 - b. E-learning platforms
 - c. Online shopping
 - d. ATM.

9. BPM refers to:
- Business Process Manager
 - Business Protocol Management
 - Business Process Management
 - None of these
10. What does "Ctrl + Z" do in most software?
- Undo the last action
 - Save the document
 - Copy selected content
 - Paste copied content
11. What is the shortcut key for saving a document in writer?
- Ctrl + O
 - Ctrl + N
 - Ctrl + S
 - Ctrl + P
12. Which key is used to erase a character to the **left** of the cursor?
- Delete
 - Shift
 - Backspace
 - Ctrl

Answer any 5 out of the given 6 questions.

(1x5=5 marks)

13. Which of the following key moves the text cursor to the beginning of the line?
- End
 - Home
 - Insert
 - Ctrl
14. Numeric keypad is mainly used for:
- Typing alphabets
 - Drawing shapes
 - Entering numbers quickly
 - Editing pictures.
15. Cut operation places the selected text into an area in the memory called ____?
- Clipboard
 - Primary area
 - Disk
 - None of these
16. Which of the following is an example of a **word processing software**?
- MS Word
 - MS PowerPoint
 - MS Excel
 - MS Access
17. Which menu contains the Find and Replace option?
- Insert
 - View
 - Edit
 - Format
18. What is the shortcut key to print a document in writer?
- Ctrl + S
 - Ctrl + P
 - Ctrl + Z
 - Ctrl + C

Answer any 5 out of the given 6 questions.

(1x5=5 marks)

19. Spelling are corrected automatically in Writer because of which of the following features?
- Auto text
 - Auto correct
 - Auto complete
 - All of the above
20. Which of the following is not an advantage of Mail Merge?
- It takes a lot of time and effort in writing letters
 - It allows to produce thousands of letters quickly.
 - It is a feature of word processor.
 - None of these
21. What is the term for text that appears in the top margin of a page?
- Heading
 - Header
 - Footer
 - Pagination
22. To hide or view a ruler, we should go to which of the following menu?
- Tools Menu
 - Insert Menu
 - View Menu
 - Edit Menu
23. The document stored in a computer is called
- Hard copy
 - Soft copy
 - Text copy
 - Blank copy
24. A ____ is an arrangement of rows and columns.

- a. table b. cell c. range d. formatting

Answer any 5 out of the given 6 questions.

(1x5=5 marks)

25. Which of the following reverses the last action
 a. Undo b. Redo
 c. Both a and b d. Shift+z
26. What best describes a mail merge?
 a. Main document merged with a webpage b. Main document merged with a data source
 c. Main document merged with a online form d. All of these
27. To make text Bold, press.....on the keyboard
 a. Ctrl + B b. Shift + B c. Ctrl + Shift + B d. Alt + B
28. Which of the following are called guide keys?
 a. F b. J
 c. Both a & b d. Z
29. Which features allows you to view the document exactly before printing.
 a. Print preview b. Preview c. Print view d. Print
30. Print option is available inmenu.
 a. File b. Edit c. Tools d. Insert

SECTION B: SUBJECTIVE TYPE QUESTIONS (26 Marks)

➤ **Answer any 3 out of the given 5 questions.**

(2x3=6 marks)

1. Write any two advantages of Non-verbal communication?
2. Explain any two keys of self-management.
3. What are the qualities of self-confident people?
4. What are the importance of feedback in communication element?
5. Write the types of sentences with examples?

➤ **Answer any 4 out of the given 6 questions.**

(2x4=8 marks)

6. What is BPO?
7. Write short notes on the following:-
 a. Function Keys b. Number Key
8. Define the following:.
 a. Undo b. Redo
9. What are the steps to create a new document?
10. What is header and footer?
11. What is mail merge?

➤ **Answer any 3 out of the given 5 questions.**

(4x3=12 marks)

12. Write any four application used in communication. Explain in brief.
13. Write short note on the following.
 a. Customer support services b. Technical support services
14. Write the steps to save a document with protection.
15. What is word processor? Write any three its features.
16. What is Margin? Write about the different types of margin.

SAMPLE PAPER– 2026-27(SET–B)

CLASS - IX

SUBJECT – ENGLISH (184)

TIME: 3 HOURS

M.M.: 80

General Instruction:

1 - The question paper contains three sections-

Section A- Reading

Section B- Writing \$Grammar

Section C- Literature.

1- Attempt questions based on specific instructions for each part.

Section A-Reading

1. Read the passage given below.

With nimble fingers and immense concentration, Neelima Vasudevan from Kerala, Hage Sonia from Arunachal Pradesh and Shubhabrata from West Bengal are unravelling antiquities from the all- important excavation site at the Purana Quila.

It has been an extraordinary experience for them and 15 other final years students of the institute of Archaeology, who have been visiting this ancient site from March 1 to put their textbook- acquired knowledge to practical use. For the uninitiated it may seem all fun and games but the students have a different perspective for them, working with a dedicated team of labourers at the excavation site, part of their 2 year course, and means that they have an important Mandate from the Archaeological survey of India to fulfil by this month end.

"On the first day, I was clueless about how I would handle such a complex world because the ASI's mandate was to locate the Mahabharata site," said Neelima Vasudevan. The students have till now excavated a series of potteries, coins and other artifacts which are of immense Archaeological significance as they shed light on the history of cultural heritage of the bygone era and the economical wealth of that period.

"As the ASI seeks to establish the existence of Indraprastha and show evidence of the Mahabharata period at the ongoing excavation site at Purana qila, this excavation is not only a learning process but also an act of responsibility," she said.

" So far we have not been able to discover painted grey ware and our training is concluding on March 31. We have evidence of Mauryan artefacts in the area and till now, we have discovered pottery relating to the kushan period." But Neelima and other students are confident that if they dig deeper they would certainly stumble upon painted gray ware and prove the existence of Indraprastha, the kingdom of the Pandavas.

Gleaming with delight, Hage Sonia, who was bid a tearful Farewell by her family at Itanagar in Arunachal Pradesh, said her discovery of 18 coins has given her the necessary confidence to pursue archaeology as a career.

"Only a few students from Arunachal or the North East take up archaeology. The reason being that in our region there is demand for engineers and doctors. I know that every day spent here would help me when I become a professional archaeologist, she said.

Based on your understanding of the passage, answer the questions the given questions- (10 marks)

A- The excavation was not only a learning process but also an act of-----.

i- study. ii- fun. iii- responsibility. iv- frolics.

B- Only a few students from Arunachal or the North East take up-----.

i- psychology. ii- geography. iii- history. iv- archaeology.

C- The students had till then excavated a series of ----- and other artefacts.

i- the map. ii- ancient book. iii- pottery, coins. iv- diamonds.

D- Find a word in para 6, which means the same as 'very large /great'.

i- immense. ii- series. iii- artefacts. iv- evidence.

E- This excavation was important because it sheds light on the -----

i- cultural heritage of the bygone era

ii- student's life iii- Mughal period iv- 20th century.

F- The textbook acquired knowledge was sufficient to discover the Archaeological investigation site at Purana Quila. (True/False)

G- What is the full form of ASI as per the referral use-

i- Annual survey of Industries ii- Assistant sub - inspector. iii- Archeological survey of India

iv- Addiction severity index.

H- The evidence of Mauryan and kushan periods have been discovered (true/false)

I- Hage Sonia's Discovery of 18 coins had given her the confidence to pursue----- as a career.

J - The important Mandate from the ASI was to discover the site of the existence of -----

i- Ravana's palace. ii- Prahlada

iii- Indraprastha. iv- Ramayana.

2- Read the passage given below.

1- With the BRICS summit starting on Thursday, the leaders of five emerging economies are all set to unveil a blueprint that will further their economic clout as well as strike political positions on global issues.

2- New Delhi according to an arousing welcome to the leaders of the Constituent Nations---- Brazil, Russia, India, China and South Africa---- on Wednesday. Prime Minister Manmohan Singh will play host to president Dilma Rousseff of Brazil, president Dimitry Medvedev of Russia, President Hu Jintao of China and President Jacob of South Africa at the summit.

3- BRICS, touted as the new growth poles of the world, accounts for 25% of the global GDP, 18% of trade, 40% of the world's foreign exchange, and nearly half its population.

4- Since the last summit in Sanya, China, the grouping has decided to add greater political content to deliberations. The leaders will focus on fostering the intra- group trade, which has grown to an impressive 28% over the last few years.

5- The key outcomes of the summit in this regard are announcements of a study group for the BRICS bank and the two enabling protocols for implementing the inter-banking agreement, which includes part credit financing in local currencies subject to domestic laws. The theme of the summit is BRICS partnership for global stability, security and prosperity'.

6- The joint statement to be adopted at the end of the summit will have the group taking positions on global issues such as Syria and Iran. The leaders will also focus on the Global economic situation as well as restructuring of international financial institutions such as the World Bank and the IMF.

7- Issues about climate change and terrorism will also come up for greater deliberations. Singh will hold key bilateral talks with the Presidents of Russia, China and Brazil on Thursday afternoon.

Based on your understanding of the passage, answer the given questions.

(10 marks)

A- BRICS summit aims-----

i- to further their economic clout

ii- to set the leaders of five emerging economies

iii- to unveil a blueprint

iv- to strike a political position on global issues.

B- The antonyms of ' disappearing' as given in Para 1 is-----

i- receding. ii- sinking. iii- emerging. iv- unveiling.

C- The outcome of the summit is -----

D- According to the extract, which statement is not true.

- i- Brazil, Russia, India, China and South Africa are the five emerging economies.
- ii- Since the first summit the grouping has decided to add greater political content to deliberations.
- iii- Climate change and terrorism issues will also come up for greater deliberations.
- iv- BRICS accounts for 50% of the world's population.
- E- BRICS touted as the New Growth Poles of the world because. -----
- F- Find a word in Para 1, which means the same as 'declare'.
- G- The theme of the summit is-----
- H- The joint statement to be adopted at the end of the summit includes
 - i- Focus on the Global economic situation
 - ii- Restructuring of international financial institutions
 - iii- The grouping taking positions on global issues
- Choose the correct option-
 - i- only 1. ii- 1&3. iii- 2&3. iv- 1,2&3.
- I- An antonym of 'inhibiting' from Para 4 is -----
- J- The synonyms of result in Para 5 is -----
 - i- regard. ii- local. iii- stability. iv- outcomes

SECTION-B GRAMMAR.

3- Attempt Any Ten of the following

(10 marks)

- i- Fill in the blank by choosing the correct option to complete information regarding Hamlet before the appearance of the ghost .
The ghost in the scene ----- as the king ----- in his full armor.
i- recognized, dressed. ii- is recognized, dressed.
iii- recognizing, dresses.
iv- recognized, is dressed.
- ii- Read the conversation between Sam and John and complete the sentence by reporting John's reply correctly.
Sam: Where were you yesterday evening?
John: I went to see an exhibition.
Sam asked John where he had been the previous evening to which John replied -----
- iii- Select the correct option to fill in the blank for the given line, from a slogan.
Accursed! Accursed! You -----be accursed to the thirteenth generation.
a- can. b- shall. c- May. d- Need.
- iv- Select the option to fill in the blank for the given line.
----- ruffians came and looted him.
a- many. b- more. c- any. d- some.
- v- Write the correct sentence by rearranging the words.
Prediction/that/rain/it/today/may/the/is.
- vi- Write the incorrect word and the correction in the space provided.
Robert Browning was some of the great poets. Incorrect. - Correct.
-----, -----
- Vii- Fill in the blanks
Seven kilometres ---- not a small distance for a marathon. (is /are)
- Viii- Change the sentence as directed.
He invited me to the party. (Interrogative)
- ix- There was ----- water in the pool.(A lot of /many)
- x- Change into indirect speech.
He said to his friend,"Let us go for a movie."

(Creative writing skill)

4- You are the Head Boy/Head Girl of your school. Write a notice informing students about a lost school bag found in the playground. Give details and ask the owner to collect it from the school office.

Or

You are Arvind. Your parents are celebrating their wedding anniversary at home. Write an informal invitation to your friend inviting him/her to the celebration. Mention the date, time, and venue. (3 marks)

5- Answer ANY ONE of the following.

(5m)

a- Write a letter to the editor about the harmful effects of excessive mobile phone use among students

Or

Write a formal email to the school librarian requesting new books for the library.

6- You are the editor of your school magazine. Write an article in about 100–120 words on the topic:

“The Importance of Reading Books in Students’ Life.”.

(5 marks)

Or

You are a student of Class 9. Write a formal email to the librarian of your school requesting the introduction of more storybooks and comics in the library. Mention how it will help students develop reading habits.

7- You are Sumit, a student of Class 9. Write an article for your school magazine on the topic “A Day Without Electricity”. Describe your experience, the challenges you faced, and what you learned from it.

Or

Write a narrative essay on the topic “The Day I Found Something Unexpected”. Describe what you found, where you were, how you felt, and how the event changed your thoughts or actions.

(5 marks)

Section C literature

8- Attempt ANY ONE of two extracts given.

(4 marks)

“My grandmother was a good listener. She would listen to my stories with great interest. She never went to school and therefore could not read or write. Every Wednesday, when the weekly magazine arrived, I would read the next episode of ‘Kashi Yatre’ to her. One day, I went to a nearby village to attend a wedding, and I could not read the story to her. When I returned, I saw my grandmother in tears. She told me that she had missed the episode and felt helpless because she could not read it herself.”

1-Why did the grandmother depend on the narrator for the story?

- (a) She was busy with household work
- (b) She could not read or write
- (c) She did not like reading
- (d) She had poor eyesight

2-What was the name of the story the narrator read to her grandmother?

- (a) Ramayana
- (b) Mahabharata
- (c) Kashi Yatre
- (d) Panchatantra

3-Why was the grandmother upset?

- (a) She lost the magazine
- (b) The narrator refused to read
- (c) She missed an episode of the story
- (d) The story ended suddenly

4-What does the grandmother’s reaction show?

- (a) She was angry and rude
- (b) She was deeply interested in the story
- (c) She did not care about the story

(d) She wanted a new magazine

Or

The potter sat beside his wheel, shaping the clay with skilled hands. As the wheel spun round and round, the lump of clay slowly took the form of a beautiful pot. For him, pottery was not just a means of earning a living, but an art that required patience, practice, and love. He wished that the younger generation would understand the value of this traditional craft and carry it forward.

Multiple Choice Questions:

1-What was the potter doing in the extract?

- a) Painting pots
- b) Shaping clay into pots
- c) Selling pots
- d) Baking pots

2-What does the spinning wheel symbolize?

- a) Hard work and skill
- b) Time passing
- c) Modern technology
- d) Fun activity

3-According to the extract, pottery requires:

- a) Strength and speed
- b) Money and tools
- c) Patience, practice, and love
- d) Luck and help

4-What is the potter's concern?

- a) Lack of clay
- b) Low income
- c) Younger generation not valuing the craft
- d) Broken wheel

9- Attempt ANY ONE of two extracts given.

(4 marks)

Bharat is our motherland,
Rich in culture, rich in grace,
With rivers flowing wide and free,
And beauty shines in every place.

1-How is Bharat described in the extract?

- a) Poor and weak
- b) Rich in culture and grace
- c) Small and crowded
- d) Cold and dry

2-What do the flowing rivers symbolize?

- a) Danger
- b) Freedom and life
- c) Pollution
- d) War

3- What does "motherland" refer to?

- a) A foreign country
- b) The land of our birth
- c) A place for travel
- d) A small village

4- What is the overall theme of the extract?

- a) Sadness
- b) Anger
- c) Pride and love for the country
- d) Fear of enemies

(4 marks)

Or

"Palette of earth, rich and deep,
Where dreams of gardeners seep.
Brushstrokes of seeds, planted true,
Awaiting spring's vibrant hue."

1. What is the soil compared to in the extract?

- | | |
|--------------|-------------|
| A. A book | C. A river |
| B. A palette | D. A garden |

2. What do the "brushstrokes" refer to?

- | | |
|------------|----------|
| A. Leaves | C. Seeds |
| B. Flowers | D. Roots |

3. What are the seeds waiting for?

- | | |
|-------------|-----------|
| A. Rain | C. Spring |
| B. Sunlight | D. Wind |

4. What does the extract mainly describe?

- | | |
|-------------------------|------------------------|
| A. Farming difficulties | C. Gardening as an art |
| B. Beauty of painting | D. Changing seasons |

10- Answer any four questions in 30 to 40 words.

(12 mark)

- Q1. What does 'Vitamin M' symbolize in the chapter, and why is it important in modern life?
- Q2. How does the chapter highlight the negative effects of greed for money?
- Q3. What changes are described in the chapter 'Wind of Change'?
- Q4. How does the 'wind of change' impact people's mindset?
- Q5. What does the pot maker teach us about hard work and skill?

11- Answer any two questions in 30-40 words each.

(6 marks)

- a. How does the poet describe life as a canvas?
- b. What message does the poem "Soil" give about nature?
- c. How does the poet express feelings about her mother?

12- Answer any one of the following in about 120 words each:

(6 marks)

- a-Describe how the chapter "Vitamin-M" highlights the changing values of society. How does it show the difference between material wealth and emotional satisfaction?
- b- The chapter "Wind of Change" reflects transformation in society and individual thinking. Discuss the major changes shown in the chapter and their impact on people's lives.

13- Answer any one of the following in about 120 words each:

(5marks)

- a- Explain how the poet remembers his mother through different sensory experiences. How do these memories show the depth of a mother's love?
- b- "The poet cannot remember his mother, yet he feels her presence everywhere." Discuss this statement with reference to the poem.

सामान्य निर्देश:-

- ◆ सुन्दर एवं स्पष्ट लेख लिखें ।
- ◆ इस प्रश्न -पत्र में चार खण्ड हैं- क, ख, ग, एवं घ।
- ◆ प्रत्येक खण्ड से प्रश्नों के उत्तर देना अनिवार्य है।
- ◆ प्रत्येक प्रश्न के अंक उनके सम्मुख अंकित हैं।

"खण्ड-क"
(अपठितांश)

प्रश्न1-निम्नलिखित (अपठित गद्यांश) को ध्यानपूर्वक पढ़िए एवं नीचे पूछे गए प्रश्नों के उत्तर दीजिए:- (7×1=7)

स्वच्छता मानव जीवन के लिए अत्यंत आवश्यक है। स्वच्छ वातावरण न केवल हमारे शरीर को स्वस्थ रखता है, बल्कि मन को भी प्रसन्न करता है। गंदगी के कारण अनेक रोग फैलते हैं, जैसे मलेरिया, डेंगू और हैजा। यदि हम अपने घर, विद्यालय और आसपास के क्षेत्र को साफ रखें, तो हम कई बीमारियों से बच सकते हैं। स्वच्छता केवल सरकार की जिम्मेदारी नहीं है, बल्कि प्रत्येक नागरिक का कर्तव्य है। हमें कूड़ा निर्धारित स्थान पर डालना चाहिए और स्वच्छता के प्रति जागरूक रहना चाहिए।

प्रश्न-

(i) स्वच्छता मानव जीवन के लिए क्यों आवश्यक है?

(क) धन कमाने के लिए

(ग) मनोरंजन के लिए

(ख) शरीर और मन को स्वस्थ रखने के लिए

(घ) समय बिताने के लिए

(ii) गंदगी के कारण कौन-सा रोग नहीं फैलता है?

(क) मलेरिया

(ग) हैजा

(ख) डेंगू

(घ) मधुमेह

(iii) स्वच्छता किसकी जिम्मेदारी है?

(क) केवल सरकार की

(ग) प्रत्येक नागरिक की

(ख) केवल शिक्षकों की

(घ) केवल डॉक्टरों की

(iv) हमें कूड़ा कहाँ डालना चाहिए?

(v) स्वच्छता से हमें क्या लाभ होते हैं?

प्रश्न2- अधोलिखित (अपठित काव्यांश) को ध्यानपूर्वक पढ़िए एवं नीचे पूछे गए प्रश्नों के उत्तर, उचित विकल्पों द्वारा

दीजिए:-

(7×1=7)

कलम देश की बड़ी शक्ति है भाव जगाने वाली,
दिल की नहीं दिमागों में भी आग लगाने वाली !
पैदा करती कलम विचारों के जलते अंगारे,
और प्रज्वलित प्राण देश क्या कभी मरेगा मारे ?
लहूँ गर्म रखने को रखो, मन में ज्वलित विचार,
हिंसक जीव से बचने को चाहिए
किन्तु तलवार !

एक भेद है और, जहाँ निर्भय होते नर-नारी,
कलम उगलती आग, जहाँ अक्षर बनते चिंगारी।
जहाँ मनुष्यों के भीतर, हरदम जलते हैं शोले,
बाँहों में बिजली होती, होते दिमाग में गोले ।
जहाँ लोग पालते लहू में 'हालाहाल' की धार
क्या चिन्ता यदि वहाँ हाथ में नहीं हुई तलवार।

प्रश्न-

(i) मानव को तलवार की आवश्यकता कब पड़ती है?

- (क) अपनी शक्ति का प्रदर्शन करने हेतु
- (ख) दुश्मनों के दमन और हिंसक जीवों से बचाव हेतु
- (ग) युद्ध का अभ्यास करने हेतु
- (घ) दूसरों को डराने के लिए

(ii) 'कलम उगलती आग, जहाँ अक्षर बनते चिंगारी' का भाव है-

- (क) कलम से आग निकलती है।
- (ख) कलम से लिखे गए अक्षरों से चिंगारियाँ फूटती हैं।
- (ग) कलम द्वारा रचित रचनाओं से क्रांति के भाव उत्पन्न होते हैं।
- (घ) कलम से रचित साहित्य लोगों के मन में क्रोध का संचार करता है।

(iii) इस काव्यांश में कलम को देश की बड़ी शक्ति क्यों कहा गया है?

- (क) कलम में देशवासियों के मन में उत्साह, वीरता आदि भाव भरने की शक्ति है।
- (ख) कलम से हम लिख सकते हैं।
- (ग) कलम से काव्य रचना की जा सकती है।
- (घ) इनमें से कोई नहीं

(iv) हिंसक जीवों से बचने के लिए हमें किस वस्तु की आवश्यकता होती है?

(v) इस काव्यांश का उचित शीर्षक बताइए।

"खण्ड-ख"

(व्यावहारिक व्याकरण)

प्रश्न3- निम्नलिखित में निहित अलंकार का चयन करते हुए उचित विकल्प का चयन करें:-

(4×1=4)

क. प्रस्तुत पंक्तियों में कौन -सा अलंकार है?

'मेघमय आसमान से उतर रही' संध्या सुंदरी परी-सी धीरे -धीरे।'-

- (i) मानवीकरण
- (ii) यमक
- (iii) अतिशयोक्ति
- (iv) उत्प्रेक्षा।

ख. पूछा गया अलंकार जिस विकल्प में है, उसे चिन्हित करें-

'उत्प्रेक्षा अलंकार'

- (i) ले चला साथ मैं तुझे कनक, ज्यों भिक्षु लेकर स्वर्ण झनक।
- (ii) पायों जी मैं तो राम रतन धन पायों।
- (iii) वह शर इधर गांडीव गुण से भिन्न जैसे ही हुआ। धड़ से जयद्रथ का इधर सिर छिन्न वैसे ही हुआ।
- (iv) तुम्हारी यह दंतुरित मुस्कान डाल देती है, मुर्दों में भी जान।

ग. निम्नलिखित पंक्तियाँ किस अलंकार को परिभाषित कर रही हैं-

जहाँ उपमेय को उपमान मान लिया जाए वहाँ..... अलंकार होता है।

(i) रूपक

(iii) मानवीकरण

(ii) उत्प्रेक्षा

(iv) यमक

घ. अलंकार के मुख्यतः भेद होते हैं-

(i) दो

(ii) चार

(iii) पांच

(iv) इनमें से कोई नहीं।

प्रश्न4- 'उपसर्ग' एवं 'प्रत्यय' से संबंधित अधोलिखित प्रश्नों का उत्तर उचित विकल्प द्वारा दीजिए:-

(4×1=4)

क. 'दर' शब्द किस भाषा का 'उपसर्ग' है-

(i) संस्कृत का

(iii) हिंदी का

(ii) उर्दू का

(iv) इनमें से कोई नहीं।

ख. नीचे दिए गए मूल शब्द में जुड़े 'प्रत्यय' के विकल्पों में से सही विकल्प चुनकर लिखिए-
'हँसोडा'

(i) हस्+ओड

(iii) हँस+ओड़

(ii) हँस+ओड़ा

(iv) इनमें से कोई नहीं।

ग. 'बिकाऊ' शब्द में प्रयुक्त प्रत्यय है-

(i) ऊ

(ii) अऊ

(iii) आऊ

(iv) उ

घ. किस शब्द में 'अ' उपसर्ग का प्रयोग हुआ है-

(i) अपमान

(ii) अपवचन

(iii) अपरिचित

(iv) अपवाद।

प्रश्न5- उचित विकल्प का चयन करते हुए "संज्ञा, सर्वनाम, क्रिया एवं विशेषण " प्रश्नों का उत्तर दें:-

(4×1=4)

क . निम्नलिखित में से कौन-सा शब्द व्यक्तिवाचक संज्ञा है?

A) शहर

B) नदी

C) गंगा

D) देश

ख. निम्नलिखित में से कौन-सा निजवाचक सर्वनाम है?

A) मैं

B) वह

C) अपना

D) कौन

ग. वाक्य में विशेषण पहचानिए:

“सीता एक सुंदर लड़की है।”

A) सीता

B) लड़की

C) सुंदर

D) है

घ. निम्नलिखित में से कौन-सा क्रिया है?

A) खेल

B) खेलना

C) खिलाड़ी

D) खेलकूद

प्रश्न6- 'अर्थ के आधार पर' वाक्य को पहचानकर 'वाक्य -भेद' लिखिए:-

(4×1=4)

क. जिस वाक्य से किसी कार्य के न करने या न होने का बोध हो, उसे क्या कहते हैं?

(i) निषेधवाचक

(iii) विधानवाचक

(ii) संकेतवाचक

(iv) इनमें से कोई नहीं।

ख. 'उफ! पेट में बहुत दर्द हो रहा है।' वाक्य है-

(i) विस्मयवाचक वाक्य

(iii) इच्छावाचक वाक्य

(ii) आज्ञावाचक वाक्य

(iv) संकेतवाचक वाक्य

ग. नीचे के वाक्यों में 'संकेतवाचक वाक्य' है-

(i) तुम चलो तो मैं भी चलूँ।

(iii) उसने देखा होगा।

(ii) तुम्हारा मंगल हो।

(iv) शायद आज धूप हो।

घ. मुझे वाराणसी जाना है, का 'इच्छावाचक' वाक्य है-

(i) मैं वाराणसी जाऊँ।

(ii) मुझे जाना है, वाराणसी।

(iii) क्या मैं वाराणसी जाऊँ।

(iv) हाँ, मैं वाराणसी जाऊँगा।

"खण्ड-ग"

(पठितांश)

प्रश्न 7- नीचे दिए हुए (पठित गद्यांश) को ध्यानपूर्वक पढ़िए एवं पूछे गए प्रश्नों का उत्तर दीजिए:-

(1×5=5)

भला हो गनपत का, जिसने ताई के सूनपन को सहारा दे दिया था, वह न जाने कहाँ से एक प्यारा-सा पहाड़ी तोता ले आया था। ताई की सारी ममता मिट्ठू पर बरस पड़ी। वह रात-दिन मिट्ठू को लेकर ही बेचैन रहने लगीं। जो ताई अपनी खातिर चूल्हा जलाने में आलस्य कर जाती थीं, वही अब नियमपूर्वक मिट्ठू के लिए दाल-भात बनातीं। मिट्ठू के वक्त-बेवक्त के तकाजों के लिए रोटी बचाकर रखतीं। अब ताई को इस बात की पूरी जानकारी रहने लगी थी कि किसके खेत में हरी मिर्च तैयार हो गई हैं और किस पेड़ में फसल के आखिरी अमरूद बचे हैं।

प्रश्न :-

(i) गनपत ताई के लिए क्या लेकर आया था?

A. बिल्ली

B. कुत्ता

C. पहाड़ी तोता

D. गाय

(ii) ताई किस पर अपनी ममता लुटाने लगीं?

A. गनपत पर

B. मिट्ठू पर

C. गाँव वालों पर

D. अपने परिवार पर

(iii) ताई पहले किस काम में आलस्य करती थीं?

A. खेत में काम करने में

C. सफाई करने में

B. चूल्हा जलाने में

D. कपड़े धोने में

(iv) ताई अब किसके लिए दाल-भात बनाती थीं?

A. अपने लिए

C. मिट्ठू के लिए

B. गनपत के लिए

D. मेहमानों के लिए

(v) ताई को अब किस बात की जानकारी रहने लगी थी?

A. मौसम की

C. खेतों और पेड़ों की स्थिति की

B. बाजार की कीमतों की

D. शहर की खबरों की

प्रश्न 8- 'गद्य खण्ड' पर आधारित निम्नलिखित प्रश्नों में से किन्हीं तीन प्रश्नों का उत्तर (25-30) शब्दों में दीजिए :-

(2×3=6)

(i) हीरा और मोती की विशेषताएँ कुछ-कुछ समान और कुछ-कुछ अलग हैं, किंतु उनकी भिन्न विशेषताएँ एक-दूसरे को पूरा करती हैं। कैसे?

(ii) लेखक के अनुसार वृद्ध और तरुण दोनों ही वर्तमान से असंतुष्ट रहते हैं, पर दोनों की असंतुष्टि के कारण भिन्न हैं। आपके विचार से उनकी असंतुष्टि के क्या-क्या कारण हो सकते हैं?

(iii) ताई की सारी ममता मिट्ठू पर बरस पड़ी क्यों?

(iv) बैलों का घर लौट आना कोई साधारण घटना नहीं है। कैसे?

प्रश्न 9- नीचे दिए गए (पठित काव्यांश) को ध्यानपूर्वक पढ़िए एवं पूछे गए प्रश्नों का उत्तर दिए गए विकल्पों में से

दीजिए:-

(1×5=5)

देखत भृगुपति बेषु कराला। उठे सकल भय बिकल भुआला।।

पितु समेत कहि कहि निज नामा। लगे करन सब दंड प्रनामा।।

जेहि सुभायँ चितवहिं हितु जानी। सो जानइ जनु आइ खुटानी।।

जनक बहोरि आइ सिरु नावा। सीय बोलाइ प्रनामु करावा।।

प्रश्न :-

(i) 'भृगुपति' से यहाँ किसका संकेत है?

A. श्रीराम

B. परशुराम

C. जनक

D. लक्ष्मण

(ii) भृगुपति का भयानक वेश देखकर क्या हुआ?

A. सब खुश हो गए

B. कोई ध्यान नहीं दिया

C. सभी राजा भयभीत हो गए

D. लोग हँसने लगे

(iii) राजा लोग क्या करने लगे?

A. युद्ध करने लगे

B. भागने लगे

C. अपना नाम बताकर दंडवत प्रणाम करने लगे

D. चुपचाप खड़े रहे

(iv) 'जेहि सुभायँ चितवहिं हितु जानी' का क्या अर्थ है?

A. सभी को शत्रु समझना

B. स्वभाव के अनुसार ही किसी को हितकारी समझना

C. बिना सोचे समझे कार्य करना

D. सबको अनदेखा करना

(v) जनक ने सीता को क्यों बुलाया?

A. भोजन कराने के लिए

B. विवाह के लिए

C. प्रणाम करवाने के लिए

D. खेलने के लिए

प्रश्न10- 'काव्य खण्ड' पर आधारित निम्नलिखित प्रश्नों में से किन्हीं तीन प्रश्नों का उत्तर (25-30) शब्दों में दीजिए :-

(2×3=6)

(i) "अरध निमेष कलप सम बीता "पक्ति का भाव स्पष्ट करते हुए बताइए कि कविता में यह किसके संदर्भ में कहा गया है और क्यों?

(ii) भारत को सुदृढ़ करने में इसकी प्रकृति, संस्कृति और ज्ञान- परंपरा के महत्व को बताते हुए संक्षिप्त लेख लिखिए।

(iii) रैदास ने तीर्थ और व्रत के स्थान पर किस साधन को भक्ति का प्रमुख आधार माना है? आपके विचार से भक्ति के क्या आधार हो सकते हैं?

(iv) कल्पना कीजिए कि आप जनक की सभा में उपस्थित एक राजा हैं। परशुराम जी के आगमन से लेकर उनके गमन तक की कथा अपने शब्दों में लिखिए।

प्रश्न11- "गंगा" पाठ्य पुस्तक के पाठों के आधार पर निम्नलिखित प्रश्नों में से किन्हीं दो प्रश्नों का उत्तर (50-60) शब्दों में दीजिए:- (4×2=8)

- (i) "भगवान! कैसे नैया पार लगेगी?" ताई इस वाक्य में किस 'नैया' की बात कर रही हैं? वे यह बात क्यों कह रही हैं?
- (ii) समाज में महिलाओं को उचित गरिमा दिलाने हेतु आप कौन-कौन से प्रयास कर सकते हैं?
- (iii) किसी भी कार्य को पूरा करने में सहयोगियों की भी महत्वपूर्ण भूमिका रहती है। साक्षात्कार के आधार पर बताइए कि लता जी के अपने सहयोगियों के साथ संबंध कैसे थे?

"खण्ड-घ"

(रचनात्मक लेखन)

प्रश्न12- निम्नलिखित में से किसी एक विषय पर(120)शब्दों में अनुच्छेद लिखिए: - (5×1=5)

- क. जीवन में व्यायाम का महत्व
- ख. हिंदी साहित्य की उपेक्षा
- ग. देश में बढ़ता भ्रष्टाचार

प्रश्न13- निम्नलिखित (अनौपचारिक - पत्रों) में से कोई एक पत्र(100)शब्दों में लिखें:- (5×1=5)

क. अपने पिताजी को पत्र लिखकर उसमें विद्यालय के वार्षिकोत्सव की जानकारी दीजिए। इस उत्सव में आपको जो पुरस्कार प्राप्त हुए उसकी प्रसन्नता का भी उस पत्र में वर्णन कीजिए।

अथवा

ख. योगासन का महत्व बताते हुए छात्रावास में रह रहे अपने छोटे भाई को पत्र लिखिए।

प्रश्न14-दिए गए विषय/शीर्षक के आधार पर किसी एक विषय पर लगभग (100) शब्दों में "लघुकथा " लिखिए।

(5×1=5)

क. 'बंदर और मगरमच्छ' की प्रसिद्ध 'लघुकथा' का वर्णन करें।

अथवा

ख. 'एकता में बल' विषय पर एक "लघुकथा" लिखिए।

प्रश्न15- दी गई परिस्थितियों के आधार पर लगभग (80) शब्दों में किसी एक विषय पर "संवाद" लिखिए। (5×1=5)

क. दो छात्रों के बीच "शीतकालीन अवकाश " बीतने के बारे में 'संवाद' लिखिए।

अथवा

ख. 'धूमपान स्वास्थ्य के लिए हानिकारक' विषय पर दो मित्रों के बीच हुए 'संवाद' को लिखिए।

SAMPLE PAPER– 2026-27(SET–B)

CLASS - IX

SUBJECT – SCIENCE (086)

TIME: 3 HOURS

M.M.: 80

General Instructions

- This question paper consists of 39 questions in 3 sections. Section A is Biology, Section B is Chemistry and Section C is Physics.
- All questions are compulsory. However, an internal choice is provided in some questions.
- A student is expected to attempt only one of these questions.
- The following questions (Q.N. 8,9,24 & 32) 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, but (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.

SECTION A – BIOLOGY

1-Which organelle is called the powerhouse of the cell? [1]

- a) Nucleus b) Ribosome c) Mitochondria d) Vacuole

2-Cell wall is made up of: [1]

- a) Protein b) Cellulose c) Fat d) DNA

3-Which tissue transports water in plants? [1]

- a) Phloem b) Xylem c) Parenchyma d) Collenchyma

4-Which cell organelle controls all activities of the cell? [1]

- a) Cytoplasm b) Nucleus c) Lysosome d) Plastid

5-Smooth muscles are: [1]

- a) Voluntary b) Involuntary c) Striated d) Branched

6-Meristematic tissue is responsible for: [1]

- a) Photosynthesis b) Growth c) Transport d) Protection

7-Which tissue connects muscles to bones? [1]

- a) Ligament b) Tendon c) Cartilage d) Blood

8-Assertion: Mitochondria are called semi-autonomous organelles. [1]

Reason: They contain their own DNA and ribosomes.

9-Assertion: Apical meristem increases the length of the plant. [1]

Reason: Apical meristem is present at the tips of roots and shoots.

- 10-Differentiate between plant cell and animal cell (any two points).** [2]
- 11-Write two functions of plasma membrane.** [2]
- 12-What are xylem and phloem? Write one function of each.** [2]
- 13-Draw and label a neat diagram of an animal cell.** [3]
- 14-Explain three types of simple permanent tissues.** [3]
- 15- Explain the structure and functions of mitochondria with diagram.** [4]

OR

Describe different types of muscular tissues with one function of each.

- 16- Explain the structure of plant cell with labelled diagram. Write any three differences between plant cell and animal cell.** [5]

OR

Explain the structure and functions of connective tissues.

SECTION B – CHEMISTRY

- 17-Which of the following is a pure substance?** [1]
- a) Air b) Milk c) Distilled water d) Soil
- 18-Tyndall effect is shown by:** [1]
- a) True solution b) Colloid c) Suspension d) Both b and c
- 19-The number of neutrons in **Na(Sodium)** is:** [1]
- a) 11 b) 12 c) 23 d) 34
- 20-Maximum number of electrons in K-shell is:** [1]
- a) 2 b) 8 c) 18 d) 32
- 21-Which method is used to separate cream from milk?** [1]
- a) Filtration b) Sublimation c) Centrifugation d) Distillation
- 22-Valency of oxygen is:** [1]
- a) 1 b) 2 c) 3 d) 4
- 23-Canal rays are:** [1]
- a) Positively charged b) Negatively charged c) Neutral d) None
- 24-Assertion:** Atom is electrically neutral. [1]

Reason: Number of protons is equal to number of electrons.

25-Define: [2]

a) Saturated solution

b) Solubility

26-Differentiate between mixture and compound (any three points). [3]

27-State three postulates of Bohr's model of atom. [3]

28- Explain Rutherford's alpha particle scattering experiment with conclusions. [4]

OR

Explain any two methods used for separation of mixtures with examples.

29- Write the electronic configuration and valency of: [5]

i) Sodium

ii) Magnesium

iii) Neon

Which one is an inert gas?

OR

Explain chromatography with labelled diagram and applications.

SECTION C – PHYSICS

30-SI unit of momentum is: [1]

a) kg m/s

b) Newton

c) Joule

d) Watt

31-Work done is zero when: [1]

a) Force is zero

b) Displacement is zero

c) Force is perpendicular to displacement

d) All of these

32-Assertion: A gun recoils when a bullet is fired. [1]

Reason: Every action has equal and opposite reaction.

33-A body moves from 10 m/s to 20 m/s in 5 seconds. Calculate acceleration . [2]

34-Define 1 Joule of work. [2]

35-State Newton's Second Law of Motion. Derive $F=ma$. [3]

36-Calculate kinetic energy of a body of mass 10 kg moving with velocity 5 m/s. [3]

37-Differentiate between distance and displacement (any three points). [3]

38- A train starts from rest and attains a velocity of 54 km/h in 5 minutes. Calculate: [4]

i) Acceleration

ii) Distance travelled

OR

Explain Newton's Third Law of Motion with two examples.

39- State Law of Conservation of Energy. Show that total mechanical energy remains constant for a freely falling body.

[5]

OR

(a) Define power and write its SI unit.

(b) A machine does 2000 J work in 20 s. Calculate its power.

SAMPLE PAPER– 2026-27(SET–B)
CLASS - IX
SUBJECT – SOCIAL SCIENCE (087)

TIME: 3 HOURS

M.M.: 80

General Instructions:

1. All questions are compulsory.
2. Read the questions carefully before answering.
3. Marks are indicated against each question.

SECTION - A

Multiple Choice Questions (MCQ) (20 × 1 = 20 Marks)

Q1. Choose the correct answer:

1. Which layer of the Earth is made mainly of nickel and iron?
 - a) Crust
 - b) Mantle
 - c) Core
 - d) Lithosphere
2. The wearing away of landscape is called:
 - a) Deposition
 - b) Erosion
 - c) Folding
 - d) Volcanism
3. Which gas is most abundant in the atmosphere?
 - a) Oxygen
 - b) Nitrogen
 - c) Carbon dioxide
 - d) Hydrogen
4. Monsoon winds in India generally bring:
 - a) Snowfall
 - b) Rainfall
 - c) Cyclones
 - d) Drought
5. The Harappan Civilization developed near:
 - a) River Nile
 - b) River Indus
 - c) River Tigris
 - d) River Hwang Ho
6. The Vedic Age is divided into:
 - a) Two periods
 - b) Three periods
 - c) Four periods
 - d) Five periods
7. Mahajanapadas were:
 - a) Ports
 - b) Kingdoms

- c) Mountains
- d) Rivers
- 8. Democracy means:**
 - a) Rule by army
 - b) Rule by king
 - c) Rule by people
 - d) Rule by priests
- 9. Universal Adult Franchise means:**
 - a) Voting by rich people only
 - b) Voting by men only
 - c) Voting by educated citizens only
 - d) Voting rights for all adults
- 10. Which body conducts elections in India?**
 - a) Parliament
 - b) Supreme Court
 - c) Election Commission
 - d) UPSC
- 11. Scarcity leads to:**
 - a) Unlimited production
 - b) Choice making
 - c) No competition
 - d) Inflation only
- 12. Opportunity cost refers to:**
 - a) Profit earned
 - b) Loss due to theft
 - c) Next best alternative sacrificed
 - d) Extra wages
- 13. Demand generally rises when price:**
 - a) Increases
 - b) Falls
 - c) Remains constant
 - d) Doubles
- 14. Market equilibrium occurs when:**
 - a) Demand is zero
 - b) Supply is zero
 - c) Demand equals supply
 - d) Prices are fixed
- 15. Mesolithic Age is known as:**
 - a) New Stone Age
 - b) Middle Stone Age
 - c) Iron Age
 - d) Copper Age
- 16. Which civilization developed near the Nile River?**
 - a) Chinese Civilization
 - b) Harappan Civilization
 - c) Egyptian Civilization
 - d) Roman Civilization

17. Political parties are important because they:

- a) Conduct wars
- b) Help in governance
- c) Stop elections
- d) Remove democracy

18. Carbon footprint is related to:

- a) Forest area
- b) Pollution caused by humans
- c) Rainfall
- d) Earthquakes

19. The study of weather and climate is related to:

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

20. Welfare economy focuses on:

- a) Profit only
- b) Public welfare
- c) Military growth
- d) Export trade

SECTION - B

Very Short Answer Questions

(6 × 2 = 12 Marks)

- 21.** Define weathering.
- 22.** Name any two features of democracy.
- 23.** What is an electoral roll?
- 24.** Mention any two achievements of the Harappan Civilization.
- 25.** Define opportunity cost.
- 26.** What is market failure?

SECTION - C

Short Answer Questions

(5 × 3 = 15 Marks)

- 27.** Explain the theory of Plate Tectonics.
- 28.** Describe the composition of atmosphere.
- 29.** Explain the importance of elections in democracy.
- 30.** Describe any three features of the Vedic Age.
- 31.** Explain the law of demand with example.

SECTION - D

Long Answer Questions

(4 × 5 = 20 Marks)

- 32.** Explain the causes and effects of climate change.
- 33.** Describe the main features of the Harappan Civilization.
- 34.** Explain the role and functions of the Election Commission of India.
- 35.** Discuss the central problems of an economy.

SECTION - E

Case/Source Based Questions

(3 × 4 = 12 Marks)

36. Read the passage carefully and answer the questions:

“Democracy is a form of government in which rulers are elected by the people. It provides equality, freedom, and participation to citizens.”

- a) What is democracy?
- b) Who elects the rulers in democracy?
- c) Mention one feature of democracy.
- d) Why is democracy important?

37. Read the source carefully:

“The Harappan cities were well planned with proper drainage systems, roads, and houses made of baked bricks.”

- a) Name the civilization mentioned above.
- b) Mention one feature of Harappan cities.
- c) What were houses made of?
- d) Why is the drainage system important?

38. Read the passage carefully:

“When prices rise too much, demand generally decreases. Supply and demand together determine market prices.”

- a) What happens to demand when prices rise?
- b) Which two forces determine market prices?
- c) Define supply.
- d) What is market equilibrium?

SECTION - F

Map Skill

(0.25 × 4 = 1 Mark)

On the outline map of India, mark the following:

- 1. Kalibangan
- 2. Banawali
- 3. Dholavira
- 4. Manda