

SAMPLE PAPER– 2026-27(SET–C)
CLASS - VII
SUBJECT –ENGLISH

TIME: 3 HOURS

M.M.: 80

General Instructions:

The Question Paper Contains three Sections:

Sec A : Reading

Sec B : Grammar + Writing

Sec C : Literature

Attempt Questions based on Specific instructions for each part.

Section A - Reading

Q 1: Read the Passage given below:

(10 marks)

I was born in the beautiful hill station of Kasauli on one sunny day during the spring. I was born and nurtured in Mrs Mehta's beautiful terrace garden.

I was put in a cozy little flowerpot among many other flowers. Mrs. Mehta, whom everybody in the house called 'Ba' would get up every early in the morning and water the plants in her garden.

I was very fond of her. She was a middle aged woman and possessed a serene personality. Everybody loved her. Everyday, after watering the plants, she would come to me and with her beautiful, delicate fingers caress me. She would come close to me and whisper, "you are my favourite flower in this garden." Her kind words would fill my heart with pride and make me blush.

1. Where was the narrator (flower) born?

- A. In a forest B. In a park C. In Kasauli D. In a city garden

2. Where was the flower placed after being born?

- A. In a vase B. In a flowerpot C. In the ground D. In a basket

3. What did everyone in the house call Mrs. Mehta?

- A. Aunt B. Didi C. Ba D. Ma'am

4. What did Mrs. Mehta do every morning?

- A. Clean the house B. Cook food C. Water the plants D. Read books

5. How did the flower feel when Mrs. Mehta praised it?

- A. Sad B. Angry C. Proud and happy D. Scared

Q 2:- Read the poem given below :

(10 marks)

Day by day I float my paper boats

one by one down the running stream.

In big black letters I write my name on them and the name of
the village where I live.

I hope that someone in
some strange land will find
them and know who I am.

I load my little boat with
shiuli flower from our garden,
and hope that these blooms of

the dawn will be carried
safely to land in the night.

Based on your reading of the passage given above, answer the following question

1. What does the poet float down the stream?

- | | |
|-----------------|----------------|
| A. Wooden boats | B. Paper boats |
| C. Leaves | D. Flowers |

2. What does the poet write on the boats?

- | | |
|----------------------------------|--------------------------|
| A. Only his name | B. Only his village name |
| C. His name and his village name | D. Nothing |

3. Why does the poet send the boats down the stream?

- | | |
|---|---------------------------|
| A. To play a game | B. To see how far they go |
| C. So someone in a strange land may find them | D. To clean the river |

4. What does the poet put inside the boats?

- | | | | |
|-----------|-----------|-------------------|---------|
| A. Stones | B. Leaves | C. Shiuli flowers | D. Sand |
|-----------|-----------|-------------------|---------|

5. What does the poet hope for the flowers?

- | | |
|---------------------|--|
| A. They will sink | B. They will reach safely to land at night |
| C. They will dry up | D. They will float forever |

Section B (Grammar + Writing)

Q 3: Give the answer of any ten of the following:

(10 marks)

Change the following:

(i) Rakesh played very well.

(Interrogative-Negative)

(ii) Shut the door.

(Passive voice)

Use Correct Articles: {a/an/the}

(iii) She is --- lady of her own principles.

(iv) Sun sets to --- west.

(v) Cat is under --- table.

Fill Correct Prepo.

(vi) Go --- the river.

(vii) It has been done by them.

The train came before --- it's schedule.

Give the answers?

(viii) Write all three degrees of Adjectives of 'good'?

Q 4:-Write an essay on girls

(10 marks)

Hints:

Girls position in the family

Importance of education

Equal opportunities

Q 5:- Read the following lines and Give the answer of these:

(8 marks)

- a. Shivaji from which part of India
- b. In which state Gandhi ji was born?
- c. What is the festival of colours?
- d. By which direction one should follow?

Q6: Answer the following questions.

(8 marks)

- (i) What prompted Anand to create the burglar alarm?
- (ii) How did Anand's father become the target of the burglar alarm?
- (iii) what was Anand's behavior at the time of invention?
- (iv) why do you think the poet has included dialogues in the poem?

Q7: Give the answer in (30-40) words?

(10 marks)

- (i) which character of the funny man was most appealing to you?
- (ii) The funny does unusual things in the poem, How does it affect the overall mood of the poem?
- (iii) what is the main purpose of clowns in society?
- (iv) What is the benefit of laughter for a person?
- (v) How does a spider help the king Bruce?

Q8: Give the answer to the following?

(14 marks)

- (i) Why do you think the poet writes his personal details on the paper boat?
- (ii) How does the poet combine imagination and reality to make the poem more interesting?

निर्देश:-

- प्रश्न-पत्र को ध्यानपूर्वक पढ़ें।
- प्रश्न- पत्र चार खण्डों में विभक्त है-खण्ड 'क', 'ख', 'ग' और 'घ' ।
- सभी प्रश्नों के अंक उनके सम्मुख अंकित हैं।
- सभी प्रश्नों के उत्तर देने अनिवार्य हैं।
- उत्तर लिखने से पूर्व सही प्रश्न संख्या अवश्य डालें।

“खण्ड” – ‘क’ (अपठित अवबोध)

प्रश्न 1- दिए गए “अपठित” गद्य खण्ड को ध्यान पूर्वक पढ़ें और पूछे गए प्रश्नों के सही उत्तर दें:-

(5×1=5)

“अपठित गद्यांश”

विश्व में क्रांति लानेवाले आविष्कारों में कंप्यूटर का आविष्कार महत्वपूर्ण है। कंप्यूटर का आविष्कार 19वीं सदी में चार्ल्स बैबेज ने किया था। यह एक यांत्रिक उपकरण है, इसके दो प्रमुख भाग हैं-सॉफ्टवेयर तथा हार्डवेयर। आज प्रत्येक क्षेत्र में कंप्यूटर का प्रयोग किया जा रहा है। बड़ी-बड़ी संख्याओं की गणना कंप्यूटर की सहायता से आसानी से की जा सकती है। कंप्यूटर ने मनुष्य के कार्य को सरल कर दिया है। सूचना और संचार के क्षेत्र में तो कंप्यूटर ने क्रांति ही ला दी है।

प्रश्न

- (क) कंप्यूटर का आविष्कार किस प्रकार के आविष्कारों में महत्वपूर्ण है?
- (ख) कंप्यूटर के आविष्कारक कौन थे?
- (ग) कंप्यूटर किस प्रकार का उपकरण है?
- (घ) कंप्यूटर मनुष्य के लिए किस प्रकार उपयोगी है?
- (ङ) दिए गए शब्दों के पर्यायवाची रूप गद्यांश में से ढूँढ़कर लिखिए-गिनती, तीव्र परिवर्तन।

प्रश्न 2- दिए गए “अपठित काव्यांश” को ध्यान पूर्वक पढ़ें और पूछे गए प्रश्नों के सही उत्तर दें:-

(5×1=5)

“अपठित काव्यांश”

कोटि-कोटि कंठों से निकली, आज यही स्वरधारा है,
भारतवर्ष हमारा है यह, हिंदुस्तान हमारा है।
जिस दिन सबसे पहले जागे, नव-सिरजन के स्वप्न घने,
जिस दिन देश-काल के दो-दो, विस्तृत विमल वितान तने,
जिस दिन नभ में तारे छिटके, जिस दिन सूरज-चाँद बने,
तब से है यह देश हमारा, यह अभिमान हमारा है।

प्रश्न

- (क) कोटि-कोटि कंठों से क्या स्वरधारा निकली है?
 - १) भारतवर्ष हमारा है
 - २) हिंदुस्तान हमारा है

- ३) इनमें दोनों
- (ख) कविता में कवि ने सूरज-चाँद का वर्णन किस संदर्भ में किया है?
- १) भारत की प्राचीनता के
२) भारत की नवीनता के
३) भारत की सुंदरता के
- (ग) 'नव-सिरजन के स्वप्न घने' में विशेषण शब्द कौन-से हैं?
- १) नव
२) घने
३) इनमें दोनों
- (घ) 'यह अभिमान हमारा है' में अभिमान शब्द का क्या अर्थ है?
- १) मद
२) घमंड
३) गर्व
- (ङ.) 'कोटि-कोटि' शब्द में कौन-सा समास है?
- १) द्विगु समास
२) द्वंद्व समास
३) अव्ययीभाव समास

“खण्ड” – ‘ख’ (पठित अवबोध)

प्रश्न 3-दिए गए “पठित गद्य-खण्ड को ध्यानपूर्वक पढ़ें और पूछे गए प्रश्नों के उत्तर दें:-

(5×1=5)

“पठित गद्यांश”

एक समय की बात है कि एक निर्धन व्यक्ति के तीन बेटे थे। वह प्रायः अपने बेटों से कहता-“मेरे बेटो! हमारे पास न तो रुपया-पैसा है और न ही सोना-चाँदी। इसलिए तुम्हें एक दूसरे प्रकार का धन संचित करना चाहिए – हर वस्तु और स्थिति को पूर्णतः समझने और जानने का प्रयास करो। कुछ भी तुम्हारी दृष्टि से न बच पाए। रुपये-पैसे के स्थान पर तुम्हारे पास पैनी दृष्टि होगी और सोने-चाँदी के स्थान पर तीव्र बुद्धि होगी। ऐसा धन संचित कर लेने पर तुम्हें कभी किसी प्रकार की कमी न रहेगी और तुम दूसरों की तुलना में उन्नीस नहीं रहोगे।”

समय बीता और कुछ समय पश्चात् पिता चल बसे। बेटे मिलकर बैठे, उन्होंने सारी स्थिति पर विचार किया और फिर बोले- “हमारे लिए यहाँ कुछ भी तो करने को नहीं। आओ, घूम फिरकर जगत देखें। आवश्यकता होने पर हम चरवाहों या खेत में श्रमिकों का काम कर लेंगे। हम कहीं भी क्यों न हों, भूखे नहीं मरेंगे। अंततः वे तैयार होकर यात्रा पर चल दिए।

प्रश्न

- (क) निर्धन व्यक्ति के कितने बेटे थे?
- (ख) वह अपने बेटों से क्या कहता था?
- (ग) पिता की मृत्यु के पश्चात् बेटों में क्या करने का निर्णय लिया?
- (घ) बेटों ने मिलकर क्या निर्णय लिया?
- (ङ) प्रस्तुत गद्य खंड किस पाठ से लिया गया है?

प्रश्न 4-दिए गए काव्य खंड को ध्यान पूर्वक पढ़ें और काव्य पर आधारित प्रश्नों के उत्तर दें:-

(5×1=5)

काव्यांश

“माँ, कह एक कहानी।” “बेटा, समझ लिया क्या तूने मुझको अपनी नानी?”
 “कहती है मुझसे यह चेटी, तू मेरी नानी की बेटी ! कह माँ, कह, लेटी ही लेटी,
 राजा था या रानी? राजा था या रानी? माँ, कह एक कहानी।”
 “तू है हठी मानधन मेरे, सुन, उपवन में बड़े सबेरे, तात भ्रमण करते थे तेरे,
 “जहां सुरभि मनमानी, जहां सुरभि मनमानी, ?

प्रश्न

- (क) बच्चा माँ से क्या सुनाने के लिए कह रहा है?
- (ख) माँ ने बच्चे से उसे किसके समान समझने की बात कही?
- (ग) “तू मेरी नानी की बेटी” यह बात कौन कहती है?
- (घ) उपवन में बड़े सबेरे कौन भ्रमण करने जाते थे?
- (ङ) उपवन में कैसी सुरभि फैली हुई थी?

प्रश्न 5- नीचे दी गई पंक्तियों में से किसी एक को को ध्यानपूर्वक पढ़िए और विचार कीजिए कि आपको इनका क्या अर्थ समझ में आया है? दोनों पंक्तियों पर अपने विचार लिखिए। (5×1=5)

पंक्तियां

- (क) हमने अपने परिवेश को पैनी दृष्टि से देखने और बुद्धि से सोचने के प्रयास में बहुत समय लगाया है।”
- अथवा
- (ख) किस तरह कुल की बड़ाई काम दे, जो किसी में हो बड़प्पन की कसर।”

प्रश्न 6-दिए गए अति लघु उत्तरीय प्रश्नों में से किन्हीं पांच प्रश्नों के उत्तर दें- (5×1=5)

- (क) लोक कथा के पात्रों और घटनाओं के आधार पर बताइए कि राजा के निर्णय के पीछे कौन सा मूल्य छिपा था?
- (ख) मैथिली शरण गुप्त का जन्म कब हुआ था?
- (ग) “भूजल” से क्या तात्पर्य है?
- (घ) ताजमहल क्या है?
- (ङ) “मां कह एक कहानी” कविता का मुख्य भाव क्या है?
- (च) “ फूल और कांटे” कविता के रचनाकार का नाम बताइए।

प्रश्न 7-दिए गए प्रश्न में से किन्हीं दो प्रश्नों के उत्तर दें। (2× 4 = 8)

- (क) आखेटक और बच्चे के पिता के मध्य तर्क- वितर्क क्यों हुआ था?
- (ख) यदि सारी झीले नदियां और तालाब सूख जाए तो क्या होगा?
- (ग) आप इस लोककथा के भाइयों की कौन-कौन सी विशेषताओं को अपनाना चाहेंगे और क्यों?
- (घ) मां अपने बेटे को करुणा और न्याय की कहानी क्यों सुनती हैं?

खंड 'ग' (व्याकरण अवबोधन)

प्रश्न 8-मूल शब्द को प्रत्यय से अलग करके लिखिए। (5 ×1 = 5)

- (क) थकान
- (ख) चित्रकार
- (ग) कड़वाहट
- (घ) ऊंचाई

(ड) घबराहट

प्रश्न 9-भाववाचक संज्ञा बनाइए।

(5 × 1 = 5)

- (क) सज्जन
- (ख) मीठा
- (ग) पराया
- (घ) लंबा
- (ड) कड़वा

प्रश्न 10-दिए गए शब्दों के तद्भव रूप लिखिए।

(5 × 1 = 5)

- (क) ग्रीष्म
- (ख) नृत्य
- (ग) निद्रा
- (घ) सत्य
- (ड) जिह्वा

प्रश्न 11-दिए गए प्रश्नों में से किन्हीं तीन प्रश्नों के उत्तर दें।

(3 × 5 = 15)

- (क) विकारी तथा अविकारी शब्दों में अंतर बताइए।
- (ख) राजभाषा और राष्ट्रभाषा में क्या अंतर है?
- (ग) रचना के आधार पर शब्द कितने प्रकार के होते हैं?
- (घ) करण कारक और अपादान कारक में क्या अंतर है?
- (ड) कर्मधारय समास और बहुव्रीहि समास में अंतर स्पष्ट करें।

खंड 'घ' (रचनात्मक कार्य)

प्रश्न 12-दिए गए विषय में से किसी एक विषय पर पत्र लिखें।

(6 × 1 = 6)

(क) अपनी बहन के विवाह समारोह में सम्मिलित होने के लिए अपने प्रधानाचार्य को दो दिनों के लिए अवकाश पत्र लिखें।
अथवा

(ख) व्यायाम के महत्व को बताते हुए अपने छोटे भाई को पत्र लिखें।

प्रश्न 13- किसी एक विषय पर लगभग 80 शब्दों में अनुच्छेद लिखें।

(6 × 1 = 6)

- (क) वन महोत्सव
अथवा
- (ख) पुस्तक की आत्मकथा

SAMPLE PAPER– 2026-27(SET–C)
CLASS - VII
SUBJECT –MATHEMATICS

TIME: 3 HOURS

M.M.: 80

General Instructions:

1. This question paper contains 38 questions divided into five sections: A, B, C, D, and E.
2. Section A comprises 20 MCQs (Q1 to Q20) of 1 mark each. Q19 and Q20 are Assertion-Reason questions.
3. Section B comprises 5 Very Short Answer questions of 2 marks each with 2 internal choices.
4. Section C comprises 6 Short Answer questions of 3 marks each with 2 internal choices.
5. Section D comprises 4 Long Answer questions of 5 marks each with 2 internal choices.
6. Section E comprises 3 Case-Based integrated units of assessment of 4 marks each.
7. All questions are compulsory. Internal choice has been provided in some questions.

SECTION A: MULTIPLE CHOICE QUESTIONS (20 × 1 = 20 Marks)

Q1. How many billions make 100 crores in the International numbering system?

- (a) 1 billion (b) 10 billions (c) 0.1 billion (d) 100 billions

Q2. Evaluate the value of the arithmetic statement: $55 - [35 - \{50 / 5 - (10 - 15 / 3)\}]$?

- (a) 25 (b) 15 (c) 30 (d) 20

Q3. The value of $0.05 \times 0.8 \times 1.2$ is:

- (a) 0.048 (b) 0.48 (c) 0.0048 (d) 4.8

Q4. Express 25 mm in metres using decimal representation:

- (a) 0.025 m (b) 0.25 m (c) 0.0025 m (d) 2.5 m

Q5. The place value of 6 in the decimal numeral 472.1365 is:

- (a) 6/100 (b) 6/1000 (c) 6/10 (d) 60

Q6. Simplify the following expression: $(-20) \times (-4) + (-50) / 5$.

- (a) 90 (b) 70 (c) -70 (d) 74

Q7. The algebraic expression for '5 less than four times a number z' is written as:

- (a) $5 - 4z$ (b) $4z - 5$ (c) $4(z - 5)$ (d) $5z - 4$

Q8. If two parallel lines are cut by a transversal, then the vertically opposite angles are always:

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

Q9. In a magic grid, a row contains the integers -10, z, and 4. If the row sum constant is -5, then z is:

- (a) 1 (b) -1 (c) 2 (d) 0

Q10. An angle is equal to eight times its own complement. Find the measure of this angle:

- (a) 10° (b) 20° (c) 70° (d) 80°

Q11. If the angles of a triangle are in the ratio 2:3:4, the largest angle of the triangle measures:

- (a) 40° (b) 60° (c) 80° (d) 100°

Q12. The product of an improper fraction $\frac{9}{4}$ and its reciprocal is:

- (a) 1 (b) 0 (c) $\frac{81}{16}$ (d) $\frac{4}{9}$

Q13. Subtract $4a - 3b$ from $8a + 5b$. The result is:

- (a) $4a + 8b$ (b) $4a - 8b$ (c) $12a + 2b$ (d) $4a + 2b$

Q14. If two intersecting lines form a linear pair where one angle is 75° , find its adjacent supplementary angle:

- (a) 75° (b) 105° (c) 15° (d) 180°

Q15. Which of the following sets of measurements can represent the three sides of a valid triangle?

- (a) 4 cm, 5 cm, 10 cm (b) 5 cm, 7 cm, 11 cm (c) 3 cm, 3 cm, 7 cm (d) 2 cm, 3 cm, 6 cm

Q16. What fraction of a day is 8 hours?

- (a) $1/2$ (b) $1/3$ (c) $1/4$ (d) $1/6$

Q17. If $x = -3$ and $y = 1$, what is the value of the algebraic expression $4x^2 - 5y^3$?

- (a) 31 (b) 41 (c) -41 (d) -31

Q18. The sum of a fraction $5/12$ and its additive inverse is:

- (a) 1 (b) 0 (c) -1 (d) $12/5$

Direction for Q19 & Q20: 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 product of 0.25 and 4 is 1.00.

Reason (R): When multiplying a decimal by a whole number, the number of decimal digits in the product matches the decimal factors.

Q20. Assertion (A): An exterior angle of a triangle is always larger than either of its interior opposite angles.

Reason (R): The exterior angle of a triangle is equal to the sum of its two interior opposite angles.

SECTION B: VERY SHORT ANSWER QUESTIONS ($5 \times 2 = 10$ Marks)

Q21. Simplify using bracket expansion properties: 103×97 without direct long multiplication. [2 Marks]

Q22. Convert 0.375 into a vulgar fraction in its lowest/simplest reduced form. [2 Marks]

OR

Evaluate the value of the expression: $85.4 - 16.27 + 5.009$. [2 Marks]

Q23. Write a formal numerical statement using literal variables: 'Four times the cube of m is subtracted from the product of 5 and n '. [2 Marks]

Q24. In a geometric layout, two lines AB and CD are parallel and cut by a transversal line t . If one of the alternate exterior angles is 75° , find its interior alternate angle counterpart. [2 Marks]

OR

Find the complement of an angle measuring 54° . [2 Marks]

Q25. Simplify the following fraction sequence multiplication: $4 \frac{2}{3} \times 1 \frac{2}{7}$. [2 Marks]

SECTION C: SHORT ANSWER QUESTIONS ($6 \times 3 = 18$ Marks)

Q26. Write the largest and smallest 8-digit numbers possible using the digits 6, 2, 0, 5, 8, 3, 9, 1 without repetition, and find their difference in the International system notation. [3 Marks]

Q27. Simplify the nested expression by solving step-by-step using BODMAS priority rules:

$$90 \div [18 - \{25 - (30 - 12 \div 3)\}]$$

[3 Marks]

Q28. Add the following algebraic polynomials: $4x^2 + 6xy - 3y^2$, $-2xy + 5y^2 - 6$, and $-2x^2 - xy + 4$.

[3 Marks]

OR

Subtract $(3x^2 - 2xy + 5y^2)$ from the sum of $(x^2 + 4xy)$ and $(2x^2 - y^2)$.

[3 Marks]

Q29. A delivery truck covers a total distance of 168.3 km using 5.1 litres of diesel. Calculate the distance it can cover using 1 litre of diesel.

[3 Marks]

Q30. In a triangle DEF, angle D is twice as large as angle E, and angle F is six times as large as angle E.

Calculate the degree measures of all three interior angles.

[3 Marks]

OR

In a right-angled triangle, the two acute angles are in the ratio 1:4. Find the measurements of both acute angles.

[3 Marks]

Q31. A decorative carpet board pattern requires a felt strip of length $1 \frac{3}{4}$ metres. If a school art room has a master roll containing 28 metres of felt, how many complete patterns can be cut?

[3 Marks]

SECTION D: LONG ANSWER QUESTIONS ($4 \times 5 = 20$ Marks)

Q32. An educational supply press distributes 8,75,000 notebook kits into uniform shipping crates. If each crate holds exactly 125 kits, how many total crates are filled? If 35 filled crates are loaded onto a single dispatch trailer, how many trailers are needed to clear the warehouse stock layout?

[5 Marks]

OR

Solve the complex multi-bracketed phrase explicitly using step-by-step validation layout:

$$240 - 5 \times [20 + \{50 - (80 \div 4 \times 2)\}]$$

[5 Marks]

Q33. Two parallel lines m and n are cut by a transversal line t. If one of the interior angles on the same side of the transversal is modeled as $(5x + 25)^\circ$ and the other is $(2x + 15)^\circ$, find the value of x and evaluate the measurements of both angles.

[5 Marks]

Q34. Simplify the complex rational expression by executing sequential fraction additions and subtractions:

$$[6 \frac{1}{2} - 2 \frac{3}{4}] \div [3 \frac{1}{3} + 1 \frac{1}{6}]$$

[5 Marks]

OR

A chemical flask holds $6 \frac{1}{4}$ litres of industrial cleaner fluid. Out of this stock, $2 \frac{1}{2}$ litres was utilized on Monday and $1 \frac{7}{8}$ litres was utilized on Tuesday. Find the exact remaining volume of fluid left inside the flask container.

[5 Marks]

Q35. Evaluate the exact numerical valuation of the algebraic polynomial $2x^3 - 5x^2y - 2xy^2 + y^3$ when $x = -2$ and $y = 2$.

[5 Marks]

SECTION E: CASE-BASED INTEGRATED QUESTIONS ($3 \times 4 = 12$ Marks)

Q36. Case Study 1: The Matrix Equilibrium Grid

In a senior math league bracket, a 3×3 balance grid is provided where every horizontal row, vertical column, and corner-to-corner diagonal must sum up to the exact same negative integer constant. The grid cells are partially populated such that Row 1 reads [-5, a, -7], Row 2 reads [b, -6, -4], and Row 3 reads [-5, -11, c].

1. Find the magic sum constant by processing the fully complete matrix lines, and calculate the values of placeholders a and b. [2 Marks]
2. Determine the value of placeholder c, and evaluate the final absolute calculation of $(a - b + c)$. [2 Marks]

Q37. Case Study 2: Structural Roof Truss

An architectural engineer drafts a symmetric cross-bracing structural support truss for a high-school auditorium span. The truss layout uses isosceles triangular configurations. The vertex apex joint angle connecting the main steel structural chords measures exactly 40° .

1. Calculate the precise degree measure of each base support angle. State the geometric property utilized. [2 Marks]
2. If the structural baseline framing tie is extended past the foundation chord node point, calculate the exact measure of the resulting exterior angle. [2 Marks]

Q38. Case Study 3: Laboratory Solution Dispenser

A medical calibration center isolates a master formula container holding 28.35 litres of saline buffer agent. The automated valve mechanism is calibrated to distribute this entire volume uniformly into 45 diagnostic testing tubes.

1. How many litres of compound fluid are injected into each separate testing tube? Write your answer in exact decimal terms. [2 Marks]
2. If 15 testing tubes are completely spent during immediate control calibration steps, find the total volume of agent compound contained across the remaining glass tubes. [2 Marks]

SAMPLE PAPER– 2026-27(SET–C)
CLASS - VII
SUBJECT –SCIENCE

TIME: 3 HOURS

M.M.: 80

General instruction

- i. This question paper consists of 39 questions in 5 sections.
- 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.
- iii. Section A consists of 20 objective type questions carrying 1 mark each.
- iv. Section B consists of 6 Very Short questions carrying 02 marks each.
- v. Section C consists of 7 Short Answer type questions carrying 03 marks each.
- vi. Section D consists of 3 Long Answer type questions carrying 05 marks each.
- vii. Section E consists of 3 Questions case study-based Questions of 04 marks each.

SECTION A: Multiple Choice Questions (MCQs)

Each question carries 1 Mark. (20×1=20 Marks)

1-Which of the following types of changes are represented by the options?

- | | |
|----------------------------|---------------------------------|
| A. Melting of iron metal | B. Rusting of iron metal |
| C. Burning of iron filings | D. Drawing a wire of iron metal |
| (a) A and B are physical | (b) B and C are chemical |
| (c) C and D are physical | (d) A and D are chemical |

2-Anaerobic bacteria digest animal waste and produce biogas (change A). The biogas is then burnt as fuel (change B). The following statements pertain to these changes. Choose the correct one:

- (a) A is a chemical change whereas B is a physical change.
- (b) B is a chemical change whereas A is a physical change.
- (c) Both A and B are physical changes.
- (d) Both A and B are chemical changes.

3-Which of the following is involved in the working of a bulb?

- | | |
|--------------------------------|--------------------------------|
| (a) Chemical effect of current | (b) Magnetic effect of current |
| (c) Heating effect of current | (d) Shocking effect of current |

4-The cells/batteries which can be recharged are usually those used in:

- | | | | |
|--------------------|------------------|-------------|-----------------------|
| A. Electric clocks | B. Mobile phones | C. Cameras | D. Television remotes |
| (a) A and B | (b) B and C | (c) C and D | (d) A and D |

5-Which of the following is the secondary sexual characteristic in females?

- | | |
|-----------------------|-----------------------------|
| (a) Low pitched voice | (b) Broadening of chest |
| (c) Broadening of hip | (d) Developing Adam's apple |

6-Which of the following hormones prepares our body for action in emergency situations?

- | | | | |
|------------------|-------------|---------------|----------------|
| (a) Testosterone | (b) Insulin | (c) Thyroxine | (d) Adrenaline |
|------------------|-------------|---------------|----------------|

7-One of the following is not an organic acid. This is:

- | | | | |
|-----------------|-----------------|-----------------|-------------------|
| (a) Acetic acid | (b) Formic acid | (c) Citric acid | (d) Carbonic acid |
|-----------------|-----------------|-----------------|-------------------|

8-An element is soft and can be cut easily with a knife. It is very reactive and cannot be kept open in the air. It reacts vigorously with water. This element is most likely to be:

- | | | | |
|---------------|---------------|----------------|---------------|
| (a) Magnesium | (b) Potassium | (c) Phosphorus | (d) Aluminium |
|---------------|---------------|----------------|---------------|

9-Which of the following contains lactic acid?

- | | | | |
|-----------------|-------------------|------------|---------------|
| (a) Ant's sting | (b) Unripe grapes | (c) Lemons | (d) Sour milk |
|-----------------|-------------------|------------|---------------|

10-The discomfort caused by indigestion due to overeating can be cured by taking:

- | | | | |
|-----------------|-------------|-----------------|------------------|
| (a) Baking soda | (b) Vinegar | (c) Lemon juice | (d) Caustic soda |
|-----------------|-------------|-----------------|------------------|

11-The property which is common between vinegar and curd is that they:

- (a) Have sweet taste (b) Have bitter taste (c) Are tasteless (d) Have sour taste

12-The acid produced naturally in our stomach is:

- (a) Acetic acid (b) Citric acid (c) Hydrochloric acid (d) Sulphuric acid

13-Which metal is commonly used to make food packaging materials as it is cheaper, and its thin sheets can be folded easily into any shape?

- (a) Aluminium (b) Copper (c) Iron (d) Gold

14-Which among the following is not a mineral acid?

- (a) Carbonic acid (b) Acetic acid (c) Hydrochloric acid (d) Sulphuric acid

15-Electricity flows in an electric circuit which is:

- (A) Closed (B) Open (C) Round (D) Square

16-Reproductive age in women starts when their:

- (a) Menstruation starts (b) Breasts start developing
(c) Body weight increases (d) Height increases

17-The right meal for adolescents consists of:

- (a) Chips, noodles, coke (b) Chapati, dal, vegetables
(c) Rice, noodles and burger (d) Vegetable cutlets, chips, and lemon drink.

The questions below consist of an. assertion and a reason. Use the following. key to choose the appropriate answer.

- (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.

18-Assertion (A): Non-metals are generally brittle.

Reason (R): Non-metals can be drawn into wires easily.

19-Assertion (A): Burning of paper is a chemical change.

Reason (R): New substances like ash and smoke are formed.

20-Assertion (A): Boys and girls experience growth spurts during adolescence.

Reason (R): Bones and muscles grow rapidly during this stage.

SECTION B: Very Short Answer Type Questions

Each question carries 2 Marks.

(6×2=12 Marks)

21- State whether distilled water is acidic, basic or neutral. How will you confirm it?

22-Which non-metal from above can conduct electricity? Which element from above is essential for supporting life?

23- Write a word equation to represent the process of rusting of iron. Also write the chemical symbols and formulae of all the substances involved.

24- What are hormones? Where are hormones made in the human body?

25- State any two uses of electricity and any two dangers of electricity if handled carelessly.

26- What is meant by 'reproductive health'?

SECTION C: Short Answer Type Questions

Each question carries 4 Marks.

(7×3=21 Marks)

27-Predict which of the following changes can be reversed and which cannot be reversed. Why are you not sure about some of these?

- (a) Stitching cloth to a shirt

- (b) Twisting of straight string
- (c) Dissolving sugar in water
- (d) Ripening of fruits

28-Explain why, reaction between baking soda and vinegar is said to be a chemical change.

29-You are provided with three iron nails, each dipped in oil, water and vinegar. Which iron nail will not rust, and why?

30-An electric circuit containing a cell and a torch bulb is completed by using the following objects turn by turn: Matchstick, Iron nail, Eraser, Glass bangle, Key. Which of the above will make the bulb glow and which will not? Give reasons for your answer.

31-How would you connect a cell, torch bulb and switch so that the bulb lights up? Draw a sketch for this.

32-What is meant by 'primary sexual characteristics' in humans? State two primary sexual characteristics in boys and two in girls.

33-State the conditions necessary to maintain good reproductive health during adolescence.

SECTION D: Long Answer Type Questions

Each question carries 6 Marks.

(3×5=15 Marks)

34-(a) Manya is blindfolded. She is given two unknown solutions to test and determine whether they are acidic or basic. Which indicator should Manya use to test the solutions and why?

(b) The extract of red rose turns the liquid X to green. What will the nature of liquid X be? What will happen when excess amla juice is added to liquid X?

35-(a) Compare the physical and chemical properties of metals and non-metals in tabular form.

(b) State five characteristics of metals and five characteristics of non-metals.

36-(a) Describe the menstrual cycle in detail.

(b) While using a toilet, Mohini noticed that used sanitary pads were scattered near the bin. She got upset and shared her feelings with her friends. They discussed the importance of menstrual hygiene and healthy sanitary habits. What menstrual hygiene and sanitary habits would you suggest to your friends?

Section-E

Case study types of questions

(3×4 Marks =12 Marks)

37-In a chemistry lab, sodium metal was stored carefully in a bottle filled with kerosene oil. The teacher warned students never to touch sodium with wet hands because it reacts vigorously with water and may catch fire.

Questions:

- (a) Why is sodium stored in kerosene oil?
- (b) What may happen if sodium comes in contact with water?
- (c) Is sodium a metal or non-metal?
- (d) Which property of sodium is highlighted in this activity?

38-During a science experiment, students heated reddish-brown copper powder in a china dish. After some time, the copper powder turned black. When hydrogen gas was passed over the black substance, the reddish-brown colour reappeared.

Questions:

- (a) What type of change occurred when copper powder turned black?
- (b) Why is this considered a chemical change?
- (c) What was formed on heating copper powder?
- (d) Which gas helped in getting back the reddish-brown copper?

38-A student mixed baking soda and vinegar in a bottle and quickly fixed a balloon at the mouth of the bottle. After a few seconds, the balloon started inflating automatically.

Questions:

- (a)What caused the balloon to inflate?
- (b)Which gas is produced during the reaction?
- (c)Is this a physical or chemical change? Give a reason.
- (d)Name two reactants used in the activity.

39-Riya, a 13-year-old student, noticed many changes in her body over the past year. Her height increased rapidly, she started sweating more, and pimples appeared on her face. She also became more conscious about cleanliness and personal hygiene. Her teacher explained that these changes are natural during adolescence because of hormonal activity in the body.

Questions:

- (a)What stage of life is Riya going through?
- (b)Name the glands responsible for releasing hormones during adolescence.
- (c)Why do adolescents sweat more than before?
- (d)Which hormone is mainly responsible

SAMPLE PAPER– 2026-27(SET–C)
CLASS - VII
SUBJECT –SOCIAL SCIENCE

TIME: 3 HOURS

M.M.: 80

General Instructions:

- All questions are compulsory.
- Read the questions carefully before answering.
- Write neat and clean answers.
- Draw labelled diagrams wherever necessary.
- Marks are indicated against each question.

Section A – Multiple Choice Questions (10 Marks)
(1 Mark Each)

- I. Why do the Eastern Coastal Plains have more deltas than the Western Coastal Plains?
- A. Because the western rivers are longer B. Because the western coast has heavy rainfall
C. Because eastern rivers flow slowly and deposit silt D. Because the eastern coast has no mountains
- II. Which IMD colour code signals the most severe warning requiring immediate action?
- A. Yellow B. Orange C. Red D. Green
- III. The word “Monsoon” comes from the Arabic word Mausim, which means:
- A. Rain B. Season C. Wind D. Storm
- IV. Southern kingdoms traded gold, spices and stones. What global competency did this highlight?
- A. Regional isolation B. International trade and cultural exchange
C. Avoiding contact with neighbours D. Stopping sea voyages
- V. Which feature of Mauryan houses showed urban planning?
- A. Multi-storey wooden structures B. Dome-shaped ceilings
C. Brick towers like Mesopotamia D. Underground air cooling systems
- VI. Sangam literature refers to:
- A. Vedic hymns B. Assemblies of Tamil poets
C. Greek manuscripts D. Jain sutras
- VII. The southern trade route from Kausambi to Pratishthana was called:
- A. Uttarapath B. Dakshinapath
C. Paschimapath D. Devapath
- VIII. Which danger is most common in dictatorships?
- A. Over-participation of citizens B. Abuse of power without accountability
C. Excessive independence of judiciary D. Too many elections
- IX. The “standard of deferred payment” means money helps us to:
- A. Pay in the future as agreed B. Compare prices
C. Save safely D. Carry value easily
- X. When sellers set prices too high, what market behaviour follows?
- A. Buyers rush to buy B. The product becomes more popular
C. Buyers refuse and no sale occurs D. Wholesalers reduce supply

Section B – Assertion and Reason (5 Marks)
(1 Mark Each)

The following questions consist of two statements: Assertion (A) and Reason (R). Answer these questions by selecting 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.

I.Assertion (A): The Northern Plains are ideal for dense human settlement.

Reason (R): They are covered mostly with desert sand and receive very little rainfall.

II.Assertion (A): Newly emerging kingdoms often formed matrimonial alliances through marriage.

Reason (R): Marriages between royal families were used to strengthen political ties.

III.Assertion (A): Democracy is better than dictatorship and oligarchy.

Reason (R): It values the well-being of all people, not just rulers or elites.

IV.Assertion (A): In India, private banks can legally print currency if supervised by the RBI.

Reason (R): RBI is the sole authority for issuing banknotes, while coins are minted by the Government of India.

V.Assertion (A): International trade has made countries interdependent.

Reason (R): India imports vegetable oils and exports medicines and engineering goods.

Section C – True / False (5 Marks)

(1 Mark Each)

- I. All services including tailoring and healthcare can be done online.
- II. India has gained sacred groves in recent times due to rapid urbanisation.
- III. Guilds served only the rulers' interests and did not help traders themselves.
- IV. The Second Urbanisation of India took place in the fertile Ganga Plains around the 6th century BCE.
- V. The Sun's rays fall slantingly at the poles, making them very cold throughout the year.

Section D – Fill in the Blanks (5 Marks)

(1 Mark Each)

- I. Trade that takes place within the borders of one country is called ____ trade.
- II. Among the oldest forms of money in India were ____ coins.
- III. In a presidential democracy, the President is elected ____ by the people.
- IV. The story of Kumbh Mela goes back to the legend of ____.
- V. The great Sanskrit grammarian ____ lived around the 5th century BCE during the time of the Nandas.

Section E – Very Short Answer Questions (10 Marks)

(1 Mark Each)

- I. Why are the Eastern Coastal Plains agriculturally productive?
- II. Why are maximum-minimum thermometers important for meteorologists?
- III. What is meant by a sustainable lifestyle in the context of climate change?
- IV. Why are punch-marked coins considered archaeological evidence of trade?
- V. What was the role of couriers in the Mauryan communication system?
- VI. How did the Pandyas earn wealth through trade?
- VII. Which mountain is sacred to the Maoris of New Zealand?
- VIII. How do regular elections help keep democracy healthy?
- IX. Why do some people still practise small barter today?
- X. Why does the government intervene in markets?

Section F – Short Answer Questions (10 Marks)
(2 Marks Each)

- I. Why was the Dakshinapath trade route important?
- II. How do Ashoka's edicts help us understand his concept of justice and government?
- III. How did the Silk Route contribute to India's economic and cultural growth?
- IV. Why is the Peepal/Bodhi tree honoured across multiple traditions?
- V. What is an oligarchy and why does it weaken equality?

Section G – Long Answer Questions (20 Marks)
(4 Marks Each)

- I. How do different types of markets support each other? Discuss.
- II. Why is democracy considered the most suitable form of government?
- III. Describe how the land of India came to be seen as sacred. What does this idea teach us about faith, unity and responsibility?
- IV. Describe the factors responsible for the decline of the Mauryan Empire and explain why large empires were inherently fragile.
- V. Discuss the importance of meteorology in daily life.

Section H – Case Based Questions (6 Marks)

Read the following passage carefully and answer the questions that follow:

The Temple and the Trash

At the famous Jagannath Puri Temple in Odisha, lakhs of devotees gather every year for the Rath Yatra. While it is a great festival of faith and unity, piles of plastic plates, water bottles and garlands often litter the streets and beaches afterward. Local students and NGOs have begun a "Green Yatra" campaign. They collect waste, use biodegradable plates and spread awareness that real devotion means leaving the sacred place cleaner than before.

- (a) Why did students start the "Green Yatra" campaign?
- (b) What does this situation tell us about the gap between ritual and responsibility?
- (c) Suggest one rule your school could adopt to make its religious or cultural events eco-friendly.

Section I – Picture Based Questions (5 Marks)

Observe the figure of the Stupa carefully and answer the following questions:

- I. What was the main purpose of a Stupa in ancient India?
- II. Name the religion mainly associated with Stupas.
- III. Which famous ruler promoted the construction of many Stupas in India?
- IV. What does the dome-shaped structure of a Stupa symbolise?
- V. Name one famous Stupa of India.



Section-J (4 Marks)

On the outline map of India, locate and label the following places:

Puri

Pataliputra

Kanchipuram

Western Ghats