

SATISH CHANDRA MEMORIAL SCHOOL
PERIODIC TEST-I/ PREMID EXAMINATION (2025-26)
CLASS VII

MATHEMATICS

Time Allowed: 1 hr 30 min

Maximum Marks: 40

General Instructions

1. All questions are compulsory.
2. The question paper consists of 34 questions divided into three sections A, B and C.
3. Section A (Q1-Q20) comprises 20 MCQs of 1 mark each.
4. Section B (Q21-Q 22) comprises 2 Case Studies each of 5 marks.
5. Section C (Q23-Q26) comprises 3 SA questions of 2 marks and 1 LA question of 4 marks.

SECTION -A

[20 × 1=20]

1. Identify the integer whose additive inverse is 16.
(a) 0 (b) 1 (c) 16 (d) -16
2. Which of the following is an equation?
(a) $9x - 5y$ (b) $7 \times 6 - 5 \times 6$ (c) $7x = 0$ (d) $8y > 5$
3. Identify the integer which is greatest among the following.
(a) -1 (b) -20 (c) -15 (d) -23
4. For integers, Closure property doesn't satisfy for
(a) Addition (b) Subtraction (c) Multiplication (d) Division
5. $\frac{2}{35} \times \frac{14}{9} \times \frac{27}{16}$ is equal to
(a) $\frac{3}{20}$ (b) $\frac{2}{45}$ (c) $\frac{3}{40}$ (d) $\frac{7}{20}$
6. $\{28 \div (-7)\} + (-3)$ will lie on number line between
(a) -1 and -4 (b) -3 and -6 (c) -8 and -11 (d) -5 and -8
7. The solution of the equation $2a + 1 = 0$ is
(a) $-\frac{1}{2}$ (b) $\frac{1}{2}$ (c) -2 (d) -1
8. Which of the following equation has the solution $y = 1$?
(a) $2y + 2 = 0$ (b) $3y - 9 = 6$ (c) $5y + 10 = 15$ (d) $4y + 4 = -8$

9. If $25 \times 36 = 900$ then 2.5×0.36 is equal to

- (a) 9 (b) 0.9 (c) 0.009 (d) 0.09

10. $\frac{3}{7}$ of 2100 is

- (a) 900 (b) 700 (c) 600 (d) 1200

11. Choose the equation for the following statement:
"If you add 7 to two – third of a number, you get 25 "

- (a) $\frac{2x}{3} - 7 = 25$ (b) $7 - \frac{2x}{3} = 25$ (c) $\frac{2x}{3} = 25 + 7$ (d) $\frac{2x}{3} + 7 = 25$

12. The value of $(-1) \times (-1) \times (-1) \times \dots \dots \dots (2p + 1)$ times, where p is a natural no. is

- (a) 1 (b) -1 (c) $2p + 1$ (d) p

13. $23 \div 1000$ is equal to

- (a) 23 (b) 2.3 (c) 0.23 (d) 0.023

14. What should be subtracted from 0.2 to get 0.05?

- (a) 2.05 (b) 2.5 (c) 1.95 (d) 0.15

15. Which of the following statement is false?

- (a) $(-3) - (-2) = -1$ (b) $(-8) + (-5) = (-5) + (-8)$
(c) $(-9) + (-5) > -20$ (d) $(-4) \times (-8) = (-4) \times 8$

16. Which of the following equations can't be formed using the equation $y = 3$?

- (a) $3y = 9$ (b) $9y + 5 = 32$ (c) $2y + 1 = 7$ (d) $8y - 1 = 25$

17. Product of any three negative integers is

- (a) always negative (b) always positive (c) either positive or negative (d) undefined

18. Three times the first of three consecutive odd integers is 3 more than twice the third. What is the third integer?

- (a) 13 (b) 15 (c) 9 (d) 11

19. **Assertion:** Anu ate $\frac{3}{5}$ part of an apple. The remaining apple was eaten by Tina. Tina ate $\frac{2}{5}$ part of the apple.

Reason: $1 - \frac{3}{5} = \frac{2}{5}$

(a) Assertion and Reason both are true and Reason is the correct explanation of Assertion.

(b) Assertion and Reason both are true but Reason is not the correct explanation of Assertion.

(c) Assertion is true but Reason is false.

(d) Assertion is false but Reason is true.

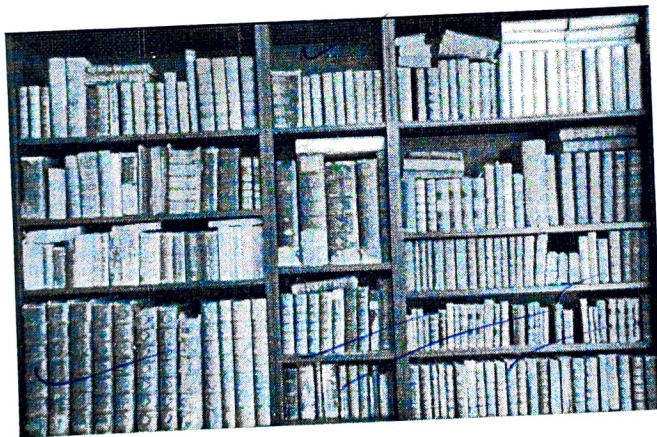
20. **Assertion :** $8x + 4 = 12$ is an equation.

Reason: An equation is a statement in which the values of two mathematical expressions are not same.

- (a) Assertion and Reason both are true and Reason is the correct explanation of Assertion.
- (b) Assertion and Reason both are true but Reason is not the correct explanation of Assertion.
- (c) Assertion is true but Reason is false.
- (d) Assertion is false but Reason is true.

SECTION B

21. **CASE STUDY 1:** Lina got a bookshelf from her father on her 13th birthday. The bookshelf had 13 shelves, out of those 4 shelves were big, 5 were medium and rest of them were small in size. Each big shelf can contain 6.4 kg of books, each medium shelf can hold 4.8 kg of books and each small shelf can hold 2.6 kg of books. The cost of the bookshelf was based on its shelves and the making cost of each big shelf was Rs. 240.60, the cost of making each medium shelf was Rs. 180.50 and the cost of making each small shelf was Rs. 100.90. The cost of making the whole structure of the bookshelf except the shelves was Rs. 2000.50.



[5×1=5]

- (i) What is the total weight of books in all the three bookshelves?
(a) 59.4 kg (b) 60 kg (c) 62.8 kg (d) 56.8 kg
- (ii) What is the total cost of making all medium size bookshelves?
(a) Rs. 920.5 (b) Rs. 902.6 (c) Rs. 902.5 (d) Rs. 920.6
- (iii) How much total weight of books will be there in two big shelves and three small shelves?
(a) 20.6 kg (b) 26.3 kg (c) 24.8 kg (d) 18.6 kg
- (iv) Evaluate the total cost of making two small size bookshelves.
(a) Rs. 201.8 (b) Rs. 200.8 (c) Rs. 210.8 (d) Rs. 209.8

(v) Divide the weight of one big bookshelf by two medium bookshelves.

(a) $\frac{1}{3}$

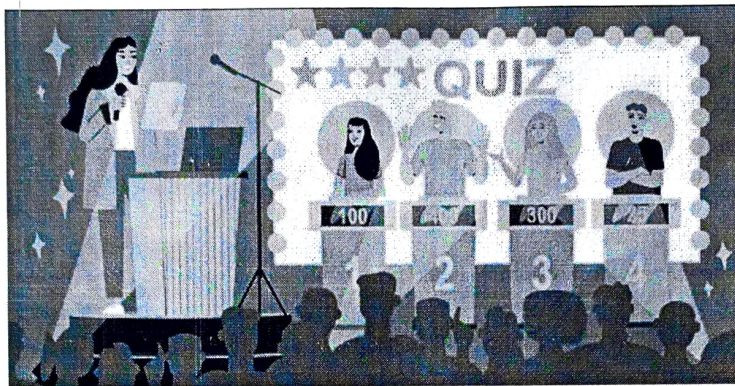
(b) $\frac{3}{5}$

(c) $\frac{2}{3}$

(d) $\frac{3}{4}$

22. **CASE STUDY 2 :** The score of four groups in 4 rounds quiz competition in a class of 40 students are listed in the following table :

NAME	ROUND 1	ROUND 2	ROUND 3	ROUND 4
GROUP A	-15	25	-10	10
GROUP B	25	-30	-10	40
GROUP C	-5	-15	10	20
GROUP D	20	-30	-15	30



[5×1=5]

(i) Calculate the total score of group A after round 4.

- (a) 25 (b) 15 (c) 10 (d) 5

(ii) What would be the reciprocal of the total score of group D?

- (a) -5 (b) -10 (c) $\frac{1}{-5}$ (d) $\frac{1}{5}$

(iii) Which group has highest score?

- (a) Group A (b) Group C (c) Group D (d) Group B

(iv) Subtract group A total score from group D total score.

- (a) -5 (b) 5 (c) -15 (d) 15

(v) Find the ratio of total score of group B to that of group C.

- (a) 2:5 (b) 5:2 (c) 5:1 (d) 1:5

SECTION C

23. Find the value of the following applying suitable property:

$$745 \times 163 - 63 \times 745$$

$$74500$$

24. Solve the equation: $3(4x - 1) + 2(4x + 3) = 5(3x + 5)$ $4\frac{2}{5}$

25. Ritam's father is 52 years old. He is four years older than three times Ritam's age. What is the age of Ritam?

26. In a test, +3 marks are awarded for every correct answer and – 1 mark is awarded for every incorrect answer

and no marks for not attempting any question. Siya attempted all the questions and scored + 20 though she got 10 correct answers.

(a) How many incorrect answers has she attempted? 10

(b) How many questions were given in the test?

[3+1=4]

verified
14/06/23