



SAMPLE PAPER

FINAL EXAMS SESSION 2025 – 26

CLASS – VII

SUBJECT – MATHEMATICS

TIME : 3 HRS.

M.M:80

General Instructions

- (a) Question paper is divided into 4 sections A,B,C and D.
- (b) Section A comprises 10 questions of 1 mark each.
- (c) Section B comprises 10 questions of 2 marks each.
- (d) Section C comprises 6 questions of 4 marks each. Attempt any 5.
- (e) Section D comprises 8 questions of 5 marks each. Attempt any 6.

SECTION – A

A. Choose the correct option:

1. What is the value of x if $x - 5 = 12$?
(i) 7 (ii) 15 (iii) 17 (iv) 12
2. The sum of the interior angles of a triangle is _____.
(i) 90° (ii) 180° (iii) 120° (iv) 36°
3. The additive inverse of $7/9$ is _____.
(i) $-7/9$ (ii) $-9/7$ (iii) $9/7$ (iv) $1/9$
4. The mode of the data 3, 7, 7, 5, 9, 7, 4 is _____.
(i) 3 (ii) 4 (iii) 5 (iv) 7
5. The range of the data 12, 18, 25, 30, 35 is _____.
(i) 13 (ii) 18 (iii) 23 (iv) 35
6. Which graph uses pictures to represent data?
(i) Bar graph (ii) Line graph (iii) Pie chart (iv) Pictograph
7. The perimeter of a rectangle whose length is 12 cm and breadth is 5 cm is _____.
(i) 17 cm (ii) 24 cm (iii) 34 cm (iv) 60 cm
8. If the side of a square is doubled, its area becomes _____.
(i) 2 times (ii) 3 times (iii) 4 times (iv) 8 times
9. The coefficient of x in the expression $7x - 3$ is

(i) 3

(ii) -3

(iii) 7

(iv) x

10. Solve: $3x + 6 = 27$

(i) 6

(ii) 7

(iii) 8

(iv) 9

SECTION – B

11. Solve by trial and error method: $3x - 14 = 4$

12. Solve: $2g + 6 = 12$

13. Is it possible to have a triangle with the following sides: 6 cm, 3 cm, 2 cm

14. Draw a number line and represent $-7/4$ on it.

15. Find the mean of: 32, 41, 28, 54, 35, 26, 23, 33, 38, 40

16. What is the circumference of a circle of diameter 10 cm?

17. What is the formula to calculate?

(i) Area of a parallelogram

(ii) Area of a triangle

18. Classify monomials, binomials and trinomials:

(i) $3x^2 - 4y$

(ii) $x + y - xy$

19. Find the value of the expression when $x = -2$:

$$100 - 10x^3$$

20. Find the value of :

(i) 2^6

(ii) 9^3

SECTION – C (DO ANY 5)

21. Express in exponential form: $(-4m)^5$

22. When $a = 0$, $b = -1$, find the value of the given expression: $2a^2 + b^2 + 1$

23. If $z = 10$, find the value of: $p^2 - 2p - 100$

24. From a circular sheet of radius 4 cm, a circle of radius 3 cm is removed. Find the area of the remaining sheet. ($\pi = 3.14$)

25. Find mode and median of: 25, 22, 23, 27, 29, 21, 23

26. Laxmi's father is 49 years old. He is 4 years older than three times Laxmi's age. What is Laxmi's age?

SECTION - D (DO ANY 6)

27. Find a number such that one-fourth of the number is 3 more than 7.

28. The following data gives total marks (out of 600) obtained by six children of a particular class.

Represent the data on a bar graph.

Students	Ajay	Bali	Dipti	Geetika	Hari
Marks Obtained	450	500	300	350	400

29. ABCD is a quadrilateral. Is $BC + DA < 2(AC + BD)$?

30. Write in descending order: $\frac{-5}{4}, \frac{-3}{6}, \frac{-7}{8}$

31. $\triangle ABC$ is an isosceles triangle with $AB = AC = 7.5$ cm and $BC = 9$ cm. The height $AD = 6$ cm. Find the area of $\triangle ABC$. What will be the height of CE ?

32. A circular flower bed is surrounded by a path 4 m wide. The diameter of the flower bed is 66 m. What is the area of the path? ($\pi = 3.14$)

33. Simplify:

$$(3^5 \times 10^5 \times 25) / (5^7 \times 6^5)$$

34. Express 108×192 as a product of prime factors only in exponential form.