Class : VII	**Max. Marks : 90**
Date :	**Time Allotted : 3 hours**

General Instructions:

- **This question paper has __26__ questions and __5__ printed pages.**
- **All the questions are compulsory.**
- **Question number 1carries 1 mark for each MCQ.**
- **Question number 2 to 12 carry 2 marks each.**
- **Question number 12 to 21 carry 3 mark each.**
- **Question number 21 to 26 carry 4 marks each.**

SECTION A

1. a. Closure property does not hold good in integers for _____.   1

      i. Addition   ii. Multiplication   iii. Subtraction   iv. Division

    b. The mean of first five odd numbers is   1

      i. 23   ii. 24   iii. 5   iv. 27

    c. $0.008 \times$ _____ $= 8$ 1

      i. 10   ii. 1000   iii. 100   iv. 1

    d.   Parallel lines are always _____.   1

      i. Equal   ii. Coincident   iii. Intersect   iv. Equidistant

    e. $\frac{-102}{119}$ in standard form is _____.   1

      i. $\frac{-4}{7}$ ii. $\frac{-6}{7}$ iii. $\frac{-6}{17}$ iv. None of these

    f.   The number of elements of a triangle is _____.   1

      i. One   ii. Two   iii. Three   iv. six

    g.   A figure which has 4 vertices, 6 edges and 4 faces is a _____.   1

      i cube   ii. Cuboid   iii. Pyramid   iv. Triangle

    h.   The equation for : " the number 12 added to x to get 44" is _____.   1

i 44 = x – 12   ii. x + 12 = 44   iii. x + 44 = 10   iv none of these

i.   The additive inverse of -6 is _____.   1

    i.   6   ii. 0   iii. -5   iv. -7

j.   Which of the following statement is incorrect ?   1

    a.   The smallest integer is zero.

    b.   -7 is greater than -16.

    c.   Zero is larger than every negative number.

    d.   The sum of two negative integers is a negative integer.

    i.   a   ii. b   iii. c   iv. d

k.   If each observation of a data is increased by 5, then the arithmetic mean_____.   1

    i. does not change   ii. increases by 5   iii. decreases by 5   iv. Multiplies by 5

l.   Which of the following statements are true ?   1

    i. $\frac{8}{16} = \frac{12}{24}$ ii. $\frac{8}{16} < \frac{12}{24}$ iii. $\frac{8}{16} > \frac{12}{24}$ iv. none of these

m.   0.08 = _____   1

    i. $\frac{2}{25}$ ii. $\frac{2}{50}$ iii. $\frac{2}{5}$ iv. None of these

n.   Reciprocal of $2\frac{3}{4}$ is _____.   1

    i. $2\frac{4}{3}$ ii. $4\frac{1}{3}$ iii. $2\frac{1}{4}$ iv. None of these

0. $\frac{33}{-55}$ in standard form is _____.   1

    i. $\frac{3}{-5}$ ii. $\frac{-3}{5}$ iii. $\frac{-33}{55}$ iv. None of these

p.   Which of the following statements is correct?   1

    a.   A triangle can have two obtuse angles.

    b. The difference of any two sides of a triangle is greater than the third side.

    c. A triangle can have a right angle and two acute angles of different

       measures.

    d. A triangle can have a right angle and an obtuse angle.

    i. a   ii. b   iii. c   iv. d

q. The complement of 1^0 is _____.   1

    i. 89^0 ii. 179^0 iii. 169^0 iv. 201^0

r. Which of the following is a plane figure?   1

    i. sphere   ii. cylinder   iii. tetrahedron   iv. rectangle

s. Tetrahedron is another name for _____.   1

    i. square pyramid   ii. triangular pyramid   iii. triangular prism   iv. None of these

t. Which of the following is not a linear equation?   1

    i. 2m + 3= 5m   ii. 5y – 5 = 3   iii 5(2p + 1) = 4   iv. X + 1/x = 7

SECTION B

2. Find the additive inverse of 83 + (-90).   2

3. When two coins are tossed find the probability that both coins will land with

    tails- up?   2

4. Find the reciprocal of $(\frac{-3}{5} + \frac{2}{5}) \div \frac{4}{5}$.   2

5. Verify Euler's rule in the case of a square pyramid .   2

6. Convert $7\frac{3}{4}$ into decimals.   2

7. Find the supplement of the angle 122^0.   2

8. When a cube is represented in 2-D, how many faces are shown as hidden faces?

    Name a solid that has two edges and no vertex.   2

9. In Δ xyz, angle x = angle y. If angle z $= 40^0$, find angle x and angle y.   2

10. What should be added to 3.189 to get 7 ?   2

11. Solve the equation :   5 = 5p - 10   2

SECTION C

12. A selection committee interviewed some people for the post of a Sales Manager.   3

    The committee wanted to ensure that female candidates must also be given a fair

    chance. So they called both male and female candidates in 3:4 ratio.

i. What is the probability of a female candidate being selected?

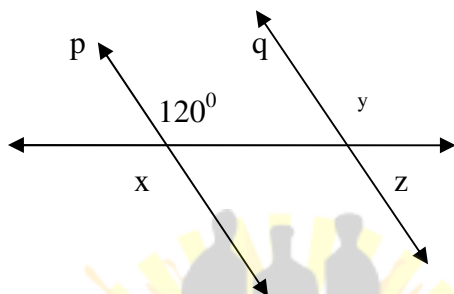   ii.   Which value is shown by the selection committee?

13. Find the median of the following data: 3

    1, 6, 7, 9, 4, 8, 13, 19, 7

14. Simplify : $4 + [\ 3 - \{\ 64 \div 2\ (\ 15 - 7)\ \}]$ 3

15. The angles of a triangle are in the ratio 3 : 4 : 5. Find all the angles.   3

16. In the given figure, p ∥ q and t is a transversal. Find the value of x, y and z.   3

17. Lines m and n are parallel to each other and two interior angles on the same side of

    the transversal are $(x - 40)^0$ and $(x - 20)^0$. Find the measure of each angle.   3

18. In a school $\dfrac{3}{5}$ of the students are girls. If the number of boys in the school is 200,   3
    find the total number of students in the school.

19. Find the measure of x and y in the given triangle.   3
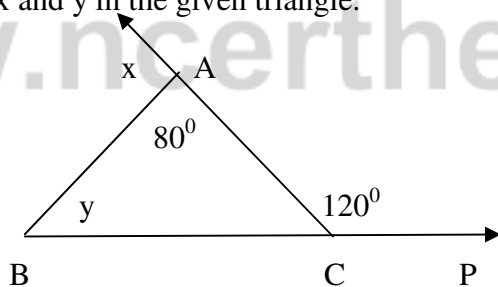
20. Rahim's father is three times as old as Rahim. If sum of their ages is 56 years,   3

    find their ages.

21. Arrange the following rational numbers in descending order: 3

    $\dfrac{7}{8}, \dfrac{64}{16}, \dfrac{36}{-12}, \dfrac{5}{-4}$

SECTION D

22. A first-aid box contains tablets worth Rs. 62.50, bandages worth Rs 20.85, a pair   4

    of scissors worth Rs 50.15, antiseptic lotion worth Rs 90.75, and cotton worth

    Rs 4.25 and an ointment worth Rs 115. Find the cost of preparing a first- aid box.

     How many such boxes can be prepared with Rs 2748?

23.Two poles of heights 6m and 11m stand on a plane ground. If the distance between

    their feet is 12m, find the distance between their tops.   4

24. The sum of two consecutive odd numbers is 68. Find the numbers.   4

25. In the given figure, m∥ n and t is the transversal. Find all the angles.   4
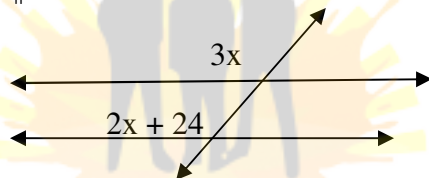
26. Vrinda, a class IX student received a cash award of Rs. 8,000/- in a singing   4

    competition. Her father advised her to make a budget plan for spending this amount.

    She made the following plan:

	Donate to temple	Welfare of street children	Tuition fee for a needy child	Saving in a bank	picnic	Party for friends	Gift for grand parents
Amount in Rs	400	1000	200	4000	1000	300	1100

    Prepare a bar graph for the above data. Also mention what values are depicted

    in her plan?