O.P. JINDAL SCHOOL, SAVITRI NAGAR

Half Yearly Exam 2025 – 26

Class/Section : VII / _____ **MM : 80**

Subject : Mathematics **Time : 3 Hrs.**

Name: _____ Roll No. _____

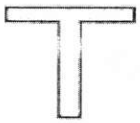
General Instructions: All questions are compulsory.

i) ***Section A*** consists of 16 questions and each question carry ***1 mark***.
ii) ***Section B*** consists of 8 questions and each question carry ***2 marks***.
iii) ***Section C*** consists of 8 questions and each question carry ***3 marks***.
iv) ***Section D*** consists of 4 questions and each question carry ***4 marks***.
v) ***Section E*** consists of 2 questions and each question carry ***4 marks***.

SECTION A

Multiple choice questions:

Q1. How many lines of symmetry are there in the following figure?



a) 0 b) 1 c) 2 d) 3

Q2. Which of the following is an improper fraction?

a) $\frac{1}{9}$ b) $\frac{107}{248}$ c) $\frac{15}{9}$ d) none of these

Q3. 0.5 x 0.05 = _____.

a) 0.25 b) 0.025 c) 25 d) none of these

Q4. Range of data is equal to:

a) highest value + lowest value
b) highest value – lowest value
c) highest value × lowest value
d) none of these

Q5. 6 - (-8) = _____.

a) 6 b) -2 c) -14 d) 14

Q6. The median of 1, 4, 1, 2, 1, 5, 4, 2, 2 is

a) 0 b) 1 c) 2 d) 4

Q7. Twice a number when decreased by 7 gives 45 , then the number is

a) 19 b) 26 c) 52 c) 38

Q8. Write the following statement in the form of an equation "The number b divided by 6 gives 5".

a) $b-5=6$ b) $5b=6$ c) $\frac{6}{b}=5$ d) $\frac{b}{6}=5$

Q9. The value of the p in the equation $5p-49=6$ will be:

a) 5 b) 11 c) 55 d) 43

Q10. What will be the complement of 79°?

a) 1° b) 101° c) 11° d) 111°

Q11. When the sum of the measures of two angles is 180°, the angles are called

a) adjacent angles
b) complementary angle
c) vertically opposite angles
d) supplementary angle

Q12. The additive inverse of -9 is

a) -9 b) 9 c) $\frac{1}{-9}$ d) $\frac{1}{9}$

Q13. If a transversal intersects two parallel lines then the interior angles on the same side of the transversal are

a) alternate angles
b) complementary angle
c) vertically opposite angles
d) supplementary angle

Q14. The quadrilateral that has line and rotational symmetry of order more than 2 is-

a) Rhombus b) Square c) Rectangle d) Parallelogram

Q15. Assertion (A): 2/7 is an improper fraction.

Reason (R): In improper fraction numerator is greater than denominator.

a) Both A and R are true and 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.

Q16. Assertion (A): 'Y' has vertical line of symmetry.

Reason (R): The line of symmetry is a line that divides an object into two identical pieces.

a) Both A and R are true and 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 B

Q17. Which is greater : $\frac{1}{2}$ of $\frac{6}{7}$ or $\frac{2}{3}$ of $\frac{3}{7}$.

OR

Write the following decimals in ascending order.

6.84, 7.4, 6.48, 6.8

Q18. Simplify the given by using suitable property.

(-16) x (-15) + (-16) x 5

Q19. Divide $\frac{1}{8}$ by $\frac{3}{4}$.

Q20. Write equations for the following statements:

a) Sum of twice of a number and 5 is 45.
b) The product of 4 and a number is 32.

Q21. Solve : $3s + 12 = 0$

Q22. Write four English alphabets which have 1 line of symmetry.

Q23. A cricketer scores the following runs in eight innings.

80, 6, 0, 100, 45, 74, 60, 35

Find the mean score.

Q24. Find an angle which is equal to its complement.

OR

Identify whether the pair of 65°and 25° is complementary or supplementary.

SECTION C

Q25. In a quiz, team A scored 10, 20, -50 and team B scored 20, 10, -40. Which team scored more?

Q26. The daily wages (in Rs.) of 15 workers in a saloon are given below:

400, 360, 300, 300, 260, 360, 360, 400, 300, 260, 360, 360, 400, 300, 360.

Arrange the above data in ascending order and prepare a frequency distribution distribution table.

Q27. Laxmi's father is 49 years old. He is 4 years older than three times Laxmi's age. What is the present age of Laxmi.

OR

Rahul scored twice as many runs as Rupesh. Together their runs fell two short of a double century. How many runs did each one score?

Q28. Arrange the fractions $\frac{2}{5}, \frac{3}{10}, \frac{9}{14}, \frac{16}{35}$ in descending order.

Q29. The following data shows the weights of 12 workers in factory.

60, 63, 66, 60, 72, 66, 63, 60, 69, 60, 69, 63

a) Find the mode of the given data.
b) What is the range of the given data.
c) What is the heaviest weight in the given data?

Q30. Solve the equations: $\frac{x}{2}+\frac{x}{5}=\frac{1}{8}$

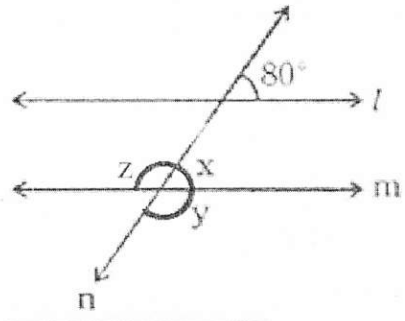
Q31. Write number of lines of symmetry, order of rotation and angle of rotation for English alphabets –

a) M b) X

Q32. Among two supplementary angles the measures of the larger angle is 44° more than the measure of the smaller. Find their measures.

OR

In the given figure $l \parallel m$, find the value of x, y and z if n is the transversal.



SECTION D

Q33. Verify that a ÷ (b + c) ≠ (a ÷ b) + (a ÷ c) for the given values of a, b and c.

a = (-10), b = 1 and c = 1.

OR

In a class test containing 10 questions, 5 marks are awarded for every correct answer and (-2) marks are awarded for every incorrect answer and 0 for each question not attempted.

a) Harish gets 4 correct and 6 incorrect answers. What is his score?
b) Rina gets 5 correct and 5 incorrect answers. What is her score?

Q34. Draw figure of the following and write number of lines of symmetry.

a) Equilateral triangle
b) Rectangle
c) Isosceles triangle
d) Square

Q35. Find the area of rectangular park which is $41\frac{2}{3}$ m long and $18\frac{3}{5}$ m broad.

OR

The product of two decimal numbers is 261.36. if one of them is 17.6, find the other.

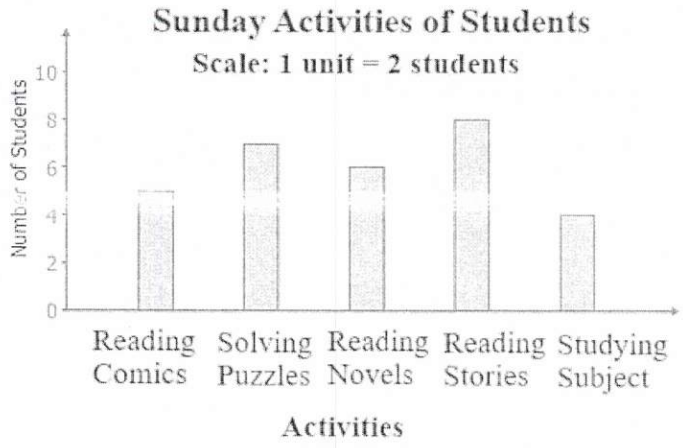
Q36. Draw a bar graph using suitable scale for the following data:

SUBJECTS	ENGLISH	HINDI	MATHS	SCIENCE	SOCIAL SCIENCE
MARKS	60	50	80	70	40

SECTION E

Case Study based questions.

(A) The given bar graph shows the activities of different students on Sunday. Refer to the graph and answer the following questions:



Q37. Which activity is followed by maximum number of students?

a) Reading comics
b) Reading stories
c) Solving puzzles
d) none of these

Q38. The number of students who took part in reading comics is

a) 4
b) 5
c) 6
d) none of these

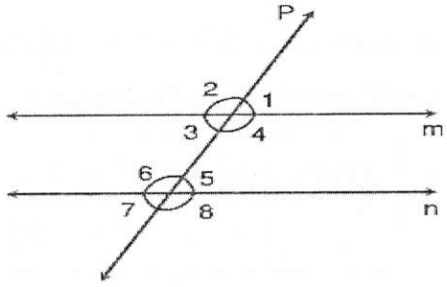
Q39. How many students in all, spend their time on solving puzzles?

a) 6
b) 7
c) 8
d) none of these

Q40. The activity followed by minimum number of students is

a) Reading comics
b) Reading stories
c) Studying subjects
d) none of these

(B) In the given figure, $m \parallel n$ and p is transversal then answer the following questions as per diagram.



Q41. Which angle is corresponding pair of $\angle 4$?

a) $\angle 3$ b) $\angle 5$ c) $\angle 6$ d) $\angle 8$

Q42. If $\angle 1 = 75°$, then what is the value of $\angle 2$?

a) $15°$ b) $105°$ c) $25°$ d) $95°$

Q43. Which one pair of angles form co-interior angle according to the above diagram?

a) $\angle 3$ and $\angle 6$ b) $\angle 5$ and $\angle 6$ c) $\angle 1$ and $\angle 3$ d) $\angle 7$ and $\angle 8$

Q44. If $\angle 1 = 55°$, then what is the value of $\angle 7$?

a) $25°$ b) $35°$ c) $45°$ d) $55°$

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