O. P. JINDAL SCHOOL, SAVITRI NAGAR

Periodic Test-I (Round –I) (2025 – 2026)

Class: VIII MM: 20

Subject: Mathematics Time: 1Hr

General Instructions:

1. *All questions are compulsory.*
2. *The question paper consists of 13 questions divided in three sections A, B and C.*
3. *Section A contains 8 questions of 1 mark each. Section B contains 3 questions of 2 marks each. Section C contains 2 questions of 3 marks each.*
4. *There is no overall choice. However an internal choice has been provided. You have to attempt only one of the alternatives in all questions.*
5. *Use of calculator is not permitted.*

Section A

Choose the correct answer:

Q1. The associative property of rational numbers is applicable to:

a) Addition and Subtraction
b) Multiplication and Division
c) Addition and Multiplication
d) Subtraction and Division

Q2. Which of the following is not a linear equation?

a) $2x + 35 = 5$ b) $3x + y = 10$ c) $3x^2 + 2x - 6 = 0$ d)all the above

Q3. Which of the following is neither a positive nor a negative rational number?

a) 1
b) 0
c) Such a rational number does not exist
d)none of these

Q4. If $x - 3 = 5$, then the value of $x + 5$ is:

a) 3 b) 8 c) 10 d) 13

Q5. Which of the following statements is always true?

a) $\frac{x+y}{2}$ is a rational number between x and y.

b) $\frac{x-y}{2}$ is a rational number between x and y.

c) $\frac{x\div y}{2}$ is a rational number between x and y.

d) $\frac{x\times y}{2}$ is a rational number between x and y.

Q6. The statement "10 is added to a number, the number becomes double." in the form of an equation.

a) $x - 10 = 2x$ b) $2x + x = 10$ c) $10 + x = 2x$ d) $20 + x = 10$

Q7. If the reciprocal of x is y, then find the reciprocal of y^2 in terms of x.

a) $1/x^2$ b) $1/x$ c) x d) x^2

Q8. Which equation shows solution 2?

a) $2y - 3y = -6$ b) $z - 8 = 10$ c) $3x + 4 = 10$ d) none of these

Section B

Answer the following questions:

Q9. Find the value of: $-\frac{4}{5} \times \frac{3}{7} \times \frac{15}{16} \times \left(\frac{-14}{9}\right)$

Q10. Solve: $\frac{x+2}{3} = \frac{x-3}{2}$

OR

Solve: $x = \frac{4}{5}(x + 10)$

Q11. Use appropriate property to solve: $\frac{7}{5} \times \left(\frac{-3}{17}\right) + \frac{2}{17} \times \left(\frac{-7}{5}\right)$
Also write name of the property.

Section C

Q12. The ages of Sonu and Monu are in the ratio 7:5. Ten years hence, the ratio of their ages will be 9:7. Find their present ages.

OR

48 is divided in two parts such that one part is 12 more than the other. Find both parts.

Q13. Find the multiplicative inverse of: $\left\{\left(\frac{-3}{7}\right) + \left(\frac{9}{-14}\right)\right\} \div \left\{\left(\frac{-15}{28}\right) \times \left(\frac{-7}{5}\right)\right\}$

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