O. P. JINDAL SCHOOL, SAVITRI NAGAR

Periodic Test – I(Round -1)(2026 – 2027)

Class: IX 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. Which of the following is not an irrational number?

a) π b) 2.676776.... c) $\sqrt{2}$ d) 3/7

Q2. A tailor has $15\frac{3}{4}$ metre of fine silk. If making one kurta requires $2\frac{1}{4}$ metre of silk, exactly how many kurtas can he make?

a) 3 b) 6 c) 7 d) none of these

Q3. How many rational numbers are there between two rational numbers?

a) 2 b) 1 c) none d) infinite

Q4. Which one of the following rational numbers is a terminating decimals?

a) 7/20 b) 1/15 c) 6/56 d) none of these

Q5. The decimal expansion of a rational number is:

a) Always terminating b) Always non-terminating
c)Either terminating or non-terminating repeating d) Non- repeating

Q6. A rational number can be:

a) A whole number b) A fractional number c) both a and b d) none of these

Q7. A spice trader takes a loan of ₹850. The next day, he makes a profit of ₹1200. The following week, he incurs a loss of ₹450, Then his financial standing is:

a) loss of₹2500 b) profit of ₹800 c) gain of ₹1600 d) loss of ₹100

Q8. If $\frac{x}{3}+\frac{x}{5}=\frac{16}{15}$,then the rational number x is:

a) 16 b) 2 c) 5 d) 3

Section B

Q9. Find 5 rational numbers between 1/6 and 2/5.

OR

Find 4 irrational numbers between 2.345221.... and 2.6627001.....

Q10. A rational number in its lowest form has denominator $2^3 \times 5$. How many decimal places will its expansion have? Explain your answer.

Q11. Locate $\sqrt{5}$ on number line.

Section C

Q12. Express $0.\overline{23}$ in the form of p/q.

OR

Find three distinct rational numbers that lie strictly between $-\frac{1}{2}$ and $\frac{1}{4}$.

Q13. Prove that $\sqrt{3}$ is an irrational number.

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