



ANANDALAYA
PERIODIC TEST – 1
Class : VIII

Subject: Mathematics

Date : 18/07/2022

M.M: 30

Time: 1hour 30min

General Instructions:

All questions are compulsory.

i) This question paper contains 16 questions.

ii) Questions 1 – 6 in Section A are very short-answer type questions carrying 1 mark each.

iii) Questions 7 – 13 in Section B are short-answer type questions carrying 2 marks each.

iv) Questions 14 – 15 in Section C are short -answer type questions carrying 3 marks each.

v) Question 16 in Section D is long-answer type question carrying 4 marks.

SECTION-A

1. Write the reciprocal of $\frac{-9}{14}$. (1)
2. Solve : $3x + 4 = 19 - 2x$ (1)
3. Solve: $\frac{3}{x+1} = \frac{4}{6-x}$ (1)
4. Write the rational numbers which are their own multiplicative inverse. (1)
5. Find x , if $\frac{5}{7}\left(\frac{3}{8} + \frac{1}{7}\right) = \frac{5}{7} \times \frac{3}{8} + \frac{5}{7} \times x$. (1)
6. Write the multiplicative inverse of $\frac{-p}{q}$. (1)

SECTION-B

7. Two numbers are in the ratio 10:3. If their difference is 35, find the numbers. (2)
8. Write any five rational numbers between $\frac{-3}{4}$ and $\frac{7}{6}$. (2)
9. Evaluate: $\left(\frac{-3}{4}\right) \times \left(\frac{-5}{8}\right) \times \frac{7}{6} \times \frac{11}{15}$. (2)
10. A rectangle has a perimeter of 24cm. Its length is twice its breadth. Find its dimensions. (2)
11. Find the sum of $\frac{1}{2}$, multiplicative identity of rational number and additive inverse of $\frac{-2}{3}$. (2)
12. Solve : $3(x - 2) + 2(x - 3) = 5(x - 1) - 7(x - 4)$ (2)
13. Represent $\frac{1}{2}$ and $\frac{-4}{3}$ on the same number line. (2)

SECTION-C

14. Find using suitable property: $\frac{2}{5} + \frac{-7}{9} + \frac{-11}{10} + \frac{5}{18}$ (3)
15. The sum of three consecutive numbers is 204. Find the numbers. (3)

SECTION-D

16. The sum of the digits of a two digit number is 10. If 36 is added to the number, the digits are reversed. Find the original number. (4)