

ANANDALAYA PERIODICTEST - 1

Class - VIII

Subject: Mathematics M.M: 50 Date : 15/07/2019 Time: 2 hours

General Instructions:

- All questions are compulsory. i)
- ii) This question paper contains 23 questions.
- Questions 1-7 in Section A are multiple choice type questions carrying 1 mark each. iii)
- Questions 8 13 in Section B are short-answer type questions carrying 2 marks each. iv)
- v) Questions 14 – 18 in Section C are short -answer type questions carrying 3 marks each.
- Questions 19 22 in Section D are long-answer type questions carrying 4 marks each. vi)

SECTION-A 1. The rational number which is its own reciprocal:					(1)
1.	(a) 0	*	(c) 1 but not -1	(d) - 1 but not 1	(1)
2.	The value of x in the (a) $\frac{3}{2}$	e equation $14 \text{ x} - 5 = (b) \frac{2}{3}$	16 is (c) $\frac{3}{2}$ and $1\frac{1}{2}$ both	ı (d) 21	(1)
3.	The multiplicative in (a) $2 \times \frac{-4}{7}$		$(c)\frac{-1}{2} \times \frac{-7}{4}$	(d) $2 \times \frac{-7}{4}$	(1)
4.	The value of y in the (a) 25	following equation 3y (b) 19	y - 3 = 22 - 2y (c) 3	(d) 5	(1)
5.	The property under multiplication used in following mathematical statement $\frac{-4}{5} \times \frac{7}{-4} = \frac{7}{-4} \times \frac{-4}{5}$ is: (a) Multiplicative identity property (c) commutative property of multiplication (d) none				(1)
6.	If ` 90 is divided between Ram and Shyam in the ratio 4:5, then their share is: (a) ` 50 and ` 40 (b) ` 40 and ` 50 (c) ` 45 and ` 36 (d) None of these				(1)

7. The reciprocal of a positive rational number is:

(a) always positive

(b) sometimes positive sometimes negative

(1)

(c) always negative (d) cannot say

SECTION-B

8. Solve:
$$8x - 10 = -3 (x - 15)$$
 (2)

9. Multiply
$$\frac{6}{13}$$
 by the reciprocal of $\frac{-27}{26}$. (2)

10. The difference between two whole numbers is 66. The ratio of two numbers is 2:5. What are the two numbers?

- 11. Subtract additive inverse of $\frac{-5}{4}$ from $\frac{7}{8}$. (2)
- 12. The number of boys and girls in a class are in the ratio 7:5. The number of boys is 8 more than (2) the number of girls. What is the total class strength?

13. Simplify:
$$\left(\frac{35}{9} \div \frac{7}{3}\right) - \left(\frac{3}{5} \times \frac{-10}{27}\right)$$
 (2)

SECTION-C

- 14. Using appropriate properties find the value of:
 - $-\frac{2}{3} \times \frac{3}{5} + \frac{5}{2} \frac{3}{5} \times \frac{1}{6}$

(3)

- 15. Solve the following linear Equation: $y \frac{y-1}{2} = 1 \frac{y-2}{3}$ (3)
- 16 Simplify: $\left(\frac{3}{-4} \div \frac{9}{16}\right) \left(\frac{-4}{7} \div \frac{8}{21}\right)$ (3)
- 17. A rational number is such that when you multiply it by $\frac{5}{2}$ and add $\frac{2}{3}$ to the product, you get $\frac{-7}{12}$. What is the number?
- 18. The organizers of an essay competition decide that a winner in the competition gets ` 100 and a participant who does not win gets a prize of ` 25. The total prize money distributed is ` 3,000. Find the number of winners, if the total participant is 63.

SECTION-D

- 19. Find six rational number between $\frac{-3}{5}$ and $\frac{-4}{7}$. (4)
- 20. Hasan buys two kinds of cloth materials for school uniforms, shirt material that costs him `50 (4) per metre and trouser material that costs him `90 per metre. For every 3 metres of shirt material he buys 2 metres of trouser material. He sells the materials at 12% and 10% profit respectively. His total sale is `36,600. How much trouser material did he buy?
- 21. The digits of a two-digit number differ by three. If the digits are interchanged and the resulting (4) number is added to the original number, we get 143. What can be the original number?
- 22. Represent $\frac{-3}{4}$, $\frac{3}{5}$, $\frac{7}{4}$, $\frac{-5}{4}$, $\frac{9}{4}$ and $\frac{-11}{5}$ on one number line. (4)