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Class 8 Math Test Paper 3
CLASS 08 - MATHEMATICS

Time Allowed : 90 mins   **Maximum Marks :** 40

Section A

1) $-\frac{3}{8} + \frac{1}{7} = \frac{1}{7} + \left(\frac{-3}{8}\right)$ is an example to show that - **[1]**
   a) Rational numbers are distributive under addition
   b) Addition of rational numbers is commutative
   c) Addition of rational numbers is associative
   d) Rational numbers are closed under addition

2) Find $\frac{2}{5} \times \left(-\frac{3}{7}\right) - \frac{1}{6} \times \frac{3}{2} + \frac{1}{14} \times \frac{2}{5}$ **[1]**
   a) - 11   b) - 28
   c) $-\frac{11}{28}$ d) 28

3) If $x - \frac{1}{x-2} = 2 - \frac{1}{x-2}$, then x is equal to **[1]**
   a) 1   b) 4
   c) 3   d) 2

4) Find two parts of 34 such that $\left(\frac{4}{7}\right)^{th}$ of one part is equal to $\left(\frac{2}{5}\right)^{th}$ of the other. **[1]**
   a) 15, 19   b) 16, 18
   c) 14, 20   d) 16, 19

5) Which of 132^2, 87^2, 7^2 and 209^2 would end with digit 1? **[1]**
   a) 72^2 b) 132^2
   c) 87^2 d) 209^2

6) What is the value of $\sqrt{1522756}$? **[1]**
   a) 2434   b) 1234
   c) 1232   d) 1324

7) If $\sqrt[3]{0.000125} = x$, then x = **[1]**
   a) 0.0005   b) 0.05
   c) 0.005   d) 0.5

8) What is the cube of double of x? **[1]**
   a) $4x^3$ b) $6x^3$
   c) $8x^3$ d) X^3

9) Product of $6a^2 - 7b + 5ab$ and $2ab$ is **[1]**
   a) $12a^3b - 14ab^2 + 10ab$
   b) $12a^2b - 7ab^2 + 10ab$
   c) $6a^2 - 7b + 7ab$
   d) $12a^3b - 14ab^2 + 10a^2b^2$

10) Add: ab - bc, bc - ca, ca - ab **[1]**
   a) 0   b) 2bc
   c) 2ac   d) 2ab

11) **Assertion (A):** 1 has no multiplicative inverse.
   Reason (R): When multiplied by the given number, gives 1 as the product. **[1]**
   a) Both A and R are true and R is the correct explanation of A.
   b) Both A and R are true but R is not the correct explanation of A.
   c) A is true but R is false.
   d) A is false but R is true.

12) **Assertion (A):** Perimeter of a rectangle is $\frac{16}{3}$ metre. Its length is $\frac{5}{2}$ metre and breadth is $\frac{1}{6}$ metre.
   Reason (R): Perimeter is the total space enclosed by the rectangle. **[1]**

   a) Both A and R are true and R is the correct explanation of A.
   b) Both A and R are true but R is not the correct explanation of A.
   c) A is true but R is false.
   d) A is false but R is true.

13) **Assertion (A):** 5400 is a perfect cube number.
   Reason (R): Cube of any negative number is always negative. **[1]**

   a) Both A and R are true and R is the correct explanation of A.
   b) Both A and R are true but 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

14) The product of two rational numbers is - 7. If one of the number is - 5, find the other? **[2]**

OR

$\frac{7}{11}$ of all the money in Hamid's bank account is ₹ 77000. How much money does Hamid have in his bank account? **[2]**

15) Find the decimal fraction, which when multiplied by itself, gives 84.64. **[2]**

16) Subtract: 3l(l - 4m + 5n) from 4l(10n - 3m + 2l) **[2]**

Section C

17) $\frac{1}{6}$ of the class students are above average, $\frac{1}{4}$ are average and rest are below average. If there are 48 students in all, how many students are below average in the class? **[3]**

18) Solve: $\frac{x}{2} - \frac{1}{4}\left(x - \frac{1}{3}\right) = \frac{1}{6}(x+1) + \frac{1}{12}$ **[3]**

OR

Solve: $\frac{1}{2}(x+1) + \frac{1}{3}(x-1) = \frac{5}{12}(x-2)$ **[3]**

19) Find the smallest square number which is divisible by each of the numbers 6, 9 and 15. **[3]**

20) Find the cube root of 15625 by prime factorisation method. **[3]**

OR

Is 9720 a perfect cube? If not, find the smallest number by which it should be divided to get a perfect cube. **[3]**

Section D

21) What is the value of $st \div (6r)$ and srt + rt if r= 5, s = 32, and t = 45? **[4]**

Section E

Question No. 22 to 26 are based on the given text. Read the text carefully and answer the questions:

Sanju and Ankit were playing a game. Sanju was having some small balls in a box .Ankit added same number of balls in the box. Third friend Dinesh added 11 more balls in the box. Ankit counted all the balls.

Total balls were found to be 23. After counting was over each friend wants back their number of balls. **[5]**

22) If initially x balls were in the box then which equation is formed?
   a) X + 11 = 23   b) 2x - 11 = 23
   c) X - 11 = 23   d) 2x + 11 = 23

23) How many balls were initially in the box?
   a) 5   b) 7
   c) 4   d) 6

24) How many balls were added by Ankit?
   a) 6   b) 4
   c) 5   d) 7

25) Sum of the ball of Sanju and Akit = x + x = 2x = _____.

26) The equation can be simplified to 2x = 12.