ATOMIC ENERGY CENTRAL SCHOOL 5,MUMBAI.

Periodic Test I -2023-24

Class: VII   **Time : 90min**

Subject: Mathematics   **Max Marks: 40**

General Instructions:

- Section A consists of 7 MCQs with 1 mark each.
- Section B consists of 8 questions of 2marks each.
- Section C consists of 3 questions of 3marks each.
- Section D consists of 2 questions of 4marks each.

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SECTION A   **(7×1=7marks)**

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1. Which of the following pair of integers gives the sum as -7
   a) $-5,2$ b) $5,-2$ c) $-5,-2$ d) $5,2$
2. The mode of the following set of numbers 1,2,3,2,1,3,6,1
   a) 2   b) 3   c) 1   d) 6
3. The solution of the equation $4p-3=13$ is
   a) 3   b) 4   c) 2   d) 1
4. For a non-zero integer a, which of the following is not defined?
   a) $a \div 0$ b) $0 \div a$ c) $a \div 1$ d) $1 \div a$
5. The lowest form of the fraction $\frac{36}{54}$

   a) $\frac{2}{3}$ b) $\frac{6}{9}$ c) $\frac{3}{2}$ d) $\frac{4}{6}$

6. The value of $2\frac{1}{3} \div \frac{4}{5}$

   a) $\frac{12}{35}$ b) $\frac{35}{12}$ c) $\frac{12}{37}$ d) $\frac{35}{15}$

7. Which of the following is always present in the given set of data?
   a) mean   b) range   c) median   d) none of these.

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SECTION B   **(8×2=16marks)**

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8. Write equation for the following statements

   a) One-fourth of a number x minus 4 gives 4

   b) The number b divided by 5 gives 6

9. The ages in years of 10 teachers of a school are

   32, 41, 28, 54, 35, 26, 23, 33, 38, 40

   Find the range of the ages of teachers.

10. Simplify $(-5) \times 8 + (-5) \times 7$ using suitable property.

11. Evaluate   a) $[(-36) \div 12] \div 3$
                b) $(-31) \div [(-30) + (-1)]$

12. Find   a) $\frac{1}{2}$ of $2\frac{3}{4}$ b) $\frac{5}{8}$ of $3\frac{5}{6}$

13. Saili plants 4 saplings in a row in her garden. The distance between the adjacent saplings is $\frac{3}{4}$m. Find the distance between the first and the last sapling.

14. Convert the following equations in statement form
    a) $x-4=5$ b) $5x+3=13$

15. If $a=1, b=2, c=-4$, then verify that $(a+b)+c=a+(b+c)$ and state the property used.

SECTION C (3×3=9marks)

16. The scores in mathematics test (out of 25) of 15 students is as follows:

    19, 25, 23, 20, 9, 20, 15, 10, 5,16, 25, 20, 24, 12, 20

    Find the mean, median and mode of this data.

17. Which is greater $\dfrac{1}{2}$ of $\dfrac{6}{7}$ or $\dfrac{2}{3}$ of $\dfrac{3}{7}$

18. Laxmi's father is 4 years older than three times Laxmi's age. Find Laxmi's age if her father's age is 49 years.

SECTION D (2×4=8marks)

19. The performance of a student in 1st term and 2nd term is given. Draw a double bar graph choosing appropriate scale and answer the following questions.

Subject	English	Hindi	Maths	Science	S.Science
1st Term(M.M.100)	67	72	88	81	73
2nd Term(M.M.100)	70	65	95	85	75

   a) In which subject has the child improved his performance the most?

   b) In which subject the performance has gone down?

20. Vidya and Pratap went for a picnic .Their mother gave them a water bottle that contained

    5litres of water.Vidya consumed $\dfrac{2}{5}$ of the water. Pratap consumed the remaining water.

    (i)   How much water did Vidya drink?
    (ii)   What fraction of the total quantity of water did Pratap drink?

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