STD: VI   **TOTAL MARKS : 80**
                                                                               DURATION : 3 HOURS

SECTION-A

A. Choose the correct option: -   **[15 x 1M= 15M]**

1. What fraction of a clockwise revolution does the hour hand of a clock turn through, when it goes from 1 to 10?
   a) ¾   b) ¼   c) More than ¾   d) none of these

2. Which of the following is the equivalent fraction for 2/3 with denominator 18?
   a) 9/18   b) 10/18   c) 11/18   d) 12/18

3. Which of the following decimal has the highest value?
   a) 0.5   b) 0.6   c) 0.7   d) 0.2

4. Digit at the tenths place of 156.89 is
   a) 1   b) 6   c) 8   d) 9

5. When the sum of the measures of two angles is that of a right angle, then each one of them is_____
   a) obtuse angle   b) acute angle   c) straight angle   d) right angle

6. Perimeter of a square= _____ x length of a side
   a) 4   b) 2   c) 3   d) 1

7. If the cost of one book is ₹ 10 then the cost of n such books will be
   a) 10 +n   b) 10n   c) 10-n   d) n

8. How many right angles do you make if you start facing north and turn clockwise to south?
   a) 1   b) 2   c) 3   d) 4

9. Mixed fraction of 11/8 is
   a) $3\frac{3}{8}$ b) $2\frac{3}{8}$ c) $1\frac{3}{8}$ d) none of these

10. 1mm = _____ cm
    a)0.1cm   b)0.01 cm   c) 1.0 cm   d)0.001cm

11. The age of Siddarth is x years , Sahil is 5 years older than Siddharth therefore Sahils age is
    (a) 5x   (b) x – 5   (c) x + 5   (d) $\frac{x}{5}$

12. The value of 3- $\frac{12}{5}$
    a) $\frac{9}{5}$ b) $\frac{9}{4}$ c) $\frac{3}{5}$ d) $\frac{5}{3}$

13. Name the type of triangle: Triangle with lengths of sides 7 cm, 8 cm and 9 cm.
    a) scalene triangle   b) isosceles triangle   c) right triangle   d) equilateral triangle

14. The decimal form of 98/1000 is
    a) 0.0098   b) 0.98   c)0.098   d) 9.8

15. 20.25 – 5.36
    a) 14.19   b) 15.89   c) 13.89   d) 14.89

SECTION-B

B. Answer the following: - [11 x 2M=22M]

11. A tabletop measures 2m by 150 cm. What is the perimeter of the table-top?

12. Evaluate $5 - \frac{1}{8}$

13. Preetha purchased a book, a pen and a notebook for ₹ 165.35,₹ 72,₹ 14.85 respectively. How much money will he have to pay to the shopkeeper for these items?

14. Perimeter of a regular pentagon is 25 cm. Find the length of its one side.

15. Do the ratios 30 cm to 4 m and 20 sec to 6 minutes form a proportion?

16. Vandana is Meghna's younger sister. Vandana is 4 years younger than Meghna. Can you write Vandana 's age in terms of Meghna 's age? Take Meghna 's age to be *x* years

17. What is to be added to 74.5 to get 91?

18. Students are marching in a parade. There are 3 cadets in a row. What is the rule which gives the number of cadets, given the number of rows? (Use *n* for the number of rows.)

19. There are 45 teachers working in a school. If the number of females is 25 and the remaining are males. Find the ratio of the number of females to the number of males.

20. Anish made 42 runs in 6 overs and Anna made 63 runs in 7 overs, who made more runs per over?

21. Find the area in square metre of a piece of cloth 1m 25 cm wide and 2 m long.

SECTION-C

C. Answer the following:- [9 x 3M=27M]

22. Of the 288 persons working in a company, 112 are men and the remaining are women. Find the ratio of the number of
    a) men to that of women
    b) women to the total number of persons

23. Sachin wants to cover the floor of a room 16m wide and 15 m long with rectangular tiles of 1.5 m long and 1 m wide. Find the number of tiles required to cover the floor.

<div align="center">Or</div>

By splitting the given figure in rectangles/squares find the area?
(The measures are given in centimetres)

24. Add $2\frac{4}{5}$ and $3\frac{5}{6}$
25. Convert the following fractions into decimals:
    a) 17/ 10
    b) 21 /25
    c) 95/ 500
26. Rahul wants to paint all the 4 walls of his room of side 10 m. If the cost of painting is ₹ 20 per sq. m then what will be the total cost of painting?
27. Write as fractions in lowest term.
    a) 0.50
    b) 0.05
    c) 0.125
28. Suhani wants to divide 35 toffees among Geeta and Sangeeta in ratio of their age. Geeta is 16 years old and Sangeeta is 12 years old. How many toffees will Geeta and Sangeeta get?

    Or

    Divide ₹ 60 in the ratio 1:2 between shruti and kiran.
29. Arrange the following fractions in ascending order
    $\frac{2}{5}, \frac{7}{9}, \frac{5}{6}, \frac{3}{4}$

    Or

    Find 6 equivalent fractions of 5/9.
30. The weight of a pumpkin is 6.05 kg and the weight of a packet of potatoes is 12.752 kg and the weight of water melon is 5kg 20 g. Find their total weight.

SECTION-D

D. Answer the following :- [4 x 4M=16M]
31. Rohit runs around a triangular field of side 30 m each and Mohit runs around a square field of side 25 m. Who covers more distance and by how much?

    Or

    Four grass beds, each of dimensions 3m x 1m are dug inside a square park of length 6m .Find the area of the remaining part of the park.
32. From a rope of length 17 /20 m, 2/ 5 m of rope is cut. Find the length of the remaining piece of the rope.
33. Apples are to be transferred from larger boxes into smaller boxes. When a large box is emptied, the apples from it fill three smaller boxes and still 20 apples remain outside.
    If the number of apples in a small box are taken to be x, what is the number of apples in the larger box?
34. Cost of 5 kg of wheat is ₹ 91.50.
    (a) What will be the cost of 8 kg of wheat?
    (b) What quantity of wheat can be purchased in ₹ 183?

    Or

    A truck requires 108 litres of diesel for covering a distance of 594 km. How much diesel will be required by the truck to cover a distance of 1650 km?