<u>CLASS – 7</u> <u>FINAL – TERM EXAM</u> <u>FM - 80</u>

MATHS

SECTION -A (1 X 6 = 6)

- 1) Write 3 integers succeeding -9
- 2) Write a fraction equivalent to with denominator 60.
- 3) What should be added to 40.152 to get 63.952?
- 4) Subtract :-

from

5) Simplify:-

32 x 104

6) Add :-

3p, 9q and 6q

 $SECTION - B \tag{6 X 2 = 12}$

- 1) 11% of a number is 44. Find the number.
- 2) Give two examples from your daily life which are in the form of a pyramid.
- 3) Find the perimeter of a square whose area is 1764cm²
- 4) Find the mean of first six multiples of 3.
- 5) A coin is tossed 1000 times with the following frequencies:

Head = 455, Tail = 545

Calculate the probability of each event

6) Two numbers are such that their product is 391. If both the numbers are tripled and multiplied again, then what will be their product?

 $\underline{\mathsf{SECTION} - \mathsf{C}} \tag{10 X 3 = 30}$

- 1) After spending 75% of his monthly income, a man saves Rs 5000 every month. Find his monthly income.
- 2) By selling a bedsheet for Rs 75, a man loses 4%. For what amount should he sell it so as to gain 20%?
- 3) Construct an isosceles triangle ABC in which AB = AC = 6cm and BC = 7cm.
- 4) Construct a right angled triangle in which hypotenuse is of length 5.4cm, and one of the acute angles angles measures 60°.
- 5) Given below are the ages of 25 students of class vii in a school. Prepare the discrete frequency distribution.

15, 16, 16, 14, 17, 17, 16, 15, 15, 16, 16, 17, 15, 16, 16, 14, 16, 15, 14, 15, 16, 16, 15, 14, 15

6) The following data have been arranged in ascending order

18, 20, 25, 26, 30, x, 37, 38, 39,48

If the median of the data is 35, find x.

- 7) Chetan is reading a book which has 303 pages. How many times does the digit 3 get printed in the page numbers? How many pages are there which have only one 3 present?
- 8) A track is in the form of a ring whose inner circumference is 352m and outer circumference is 396m. Find the area and width of the park.
- 9) Two poles of heights 6m and 11m stand on a plane ground. If the distance between their

feet is 12m, determine the distance between their tops.

10) Solve :-

$$4(3x+2)-5(6x-1)=2(x-8)-6(7x-4)+4x$$

 $\underline{\mathsf{SECTION} - \mathsf{D}} \tag{8 X 4 = 32}$

- 1) Priya has 76 coins, all of 50 paise and 25 paise. Find the number of each type of coins if the total money she has is Rs 29.
- 2) Arrange the following ratios in descending order of magnitude.
 - i) 5:7, 20:21, 3:8 and 15:17
 - ii) 1:2,2:3,3:4 and 4:5
- 3) By selling a car for Rs 34,000, a man loses 15%. If he sells the same car for Rs 44,000, find His profit per cent.
- 4) AD and BE are respectively the altitudes of \triangle ABC such that AE = BD. P rove that AD = BE.
- 5) In a school, there are five sections of class vii. The number of students in each section is given Below. Construct a bar graph with following data.

Section	Α	В	С	D	E
Number of	45	48	46	50	52
students					

- 6) Evaluate each of the following:
 - i) $0.528 \times 100 + 0.15 \div 0.5$
- ii) $9.83 \div 2.5 6.81 \div 3.2$
- 7) Subtract the sum of x + 2y + 3z and -3x + 4y + 6z from the sum of 9x 3y + 5z and 3x 4y + z.
- 8) The base of an isosceles triangle measures 24cm, and its area is 192cm². Find its perimeter.