NORTHPOINT DAY SCHOOL

Class – VI   **FINAL EXAMINATION (2019 -2020)**   Time -2½ hours

Subject – MATHS   F.M – 80

SECTION – A

1. Solve: **(1x6=6)**

     a) Which digit have the same face value and place value in 92078634?

     b) Give the successor of 562890

     c) Write 78 as the sum of two primes.

     d) Find the prime factors of 136

     e) Find the sum of : 10 + (- 11)

     f) What fraction of an hour is 30 minutes?

SECTION – B

2. Answer the following: **(6x2=12)**

     a) The score of Ishita in mathematics is 25 more than the two – third of her score in science. If she scored x marks in science, determine her score in mathematics.

     b) Solve: $8 – 3x = 11$

     c) Three – fifths of a number decreased by 5 gives 40. Find the number.

     d) Express in ratio in its simplest form: 26 min : 40 sec

     e) Give two equivalent ratios of 19 : 21

     f) Find the perimeter of a rectangle whose length and breadth are 150cm and 1m, respectively.

SECTION – C

3. Solve the following: **(10x3=30)**

     a) A farmer has a rectangular field of length and breadth 240m and 180m, respectively. He wants to fence it with 3 rounds of rope. What is the total length of rope he must use?

     b) Find the perimeter of a rectangle whose area is 650cm² and breadth is 13cm.

     c) Given below are the ages of 30 students of class X in a school. Prepare a frequency distribution table.

        16, 15, 16, 16, 14, 16, 16, 14, 15, 17, 17, 14, 15, 15, 16, 16, 15, 16, 16, 15, 14, 15, 17, 16, 15, 18, 14, 15, 18, 17

     d) A carpenter has to make 30 items of furniture, some are stools with three legs and the rest are chairs with four legs. If there are 102 legs in total for both the items, find out how many stools and how many chairs are there?

     e) Draw an angle of 45° and bisect it.

     f) Draw circles of the following radius: i) 4.5cm   ii) 6.5cm

     g) Draw the line of symmetry of the first three letters of English alphabets.

     h) Name the polygon which contains: i) four sides   ii) five sides   iii) nine sides

     i) What are parallel lines? Give three examples of parallel lines that you come across.

     j) If x = 1, y = -1, z = 2, find the value of $11xyz – 3z + 6xz$

SECTION – D

4. Solve the following: **(8x4=32)**

     a) A man is thrice as old as his son. Five years ago, the man was four times as old as his son. Find their present ages.

     b) 2) Solve: i) 7(x + 2) = 2 (9x – 4)   ii) x + 6 = 41

     c) The ratio of copper and zinc in alloy is 7: 8. If the weight of zinc is 12.8Kg, find the weight of copper in the alloy.

     d) Cost of 5 Kg of wheat is ₹ 60.50 i) what will be the cost of 8kg of wheat? ii) What quantity of wheat can be purchased for ₹ 121?

     e) Total number of animals in five villages are as follows:

Village	A	B	C	D	E
Number of animals	80	120	90	40	60

     Prepare a pictograph of these animals using one symbol to represent 10 animals and answer the following:

        i) Which village has maximum number of animals

        ii) How many symbols represent animals of village B?

     f) A rectangular courtyard 5.25m long and 3.78m broad is to be paved exactly with square tiles measuring 0.21m by 0.21m. Find the number of tiles and cost of tiles if the cost of one tile is ₹ 55.

     g) Kamal purchased a book for ₹ 245.60, a pen for ₹ 36.50, a pencil for ₹ 8.75 and a notebook for ₹ 13.25. He gave a 500 – rupee note to the shopkeeper. What amount did he get back?

     h) Sanju had 20 pencils, Shikhar had 50 pencils and Nitin had 80 pencils. In 5 months, Sanju used up 10 pencils, Shikhar used up 25 pencils and Nitin used up 40 pencils. What fraction of pencils did each use up? Check if all three had used up an equal fraction of their pencils.