MM = 40   SUBJECT – MATHS   TIME = 2hr
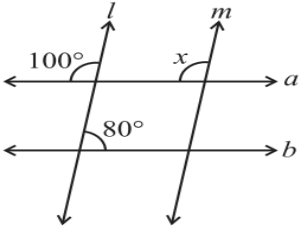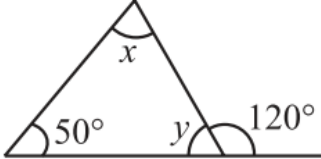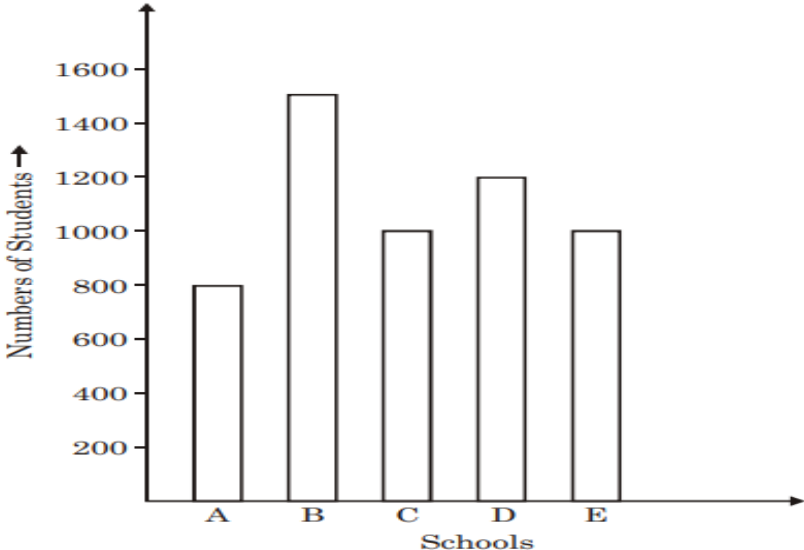
General Instructions:

1. This question paper contains four sections – A, B, C and D. Each part is compulsory.
2. Section A has 10 multiple choice type questions of 1 mark each.
3. Section B has 5 very short answer type questions of 1 mark each.
4. Section C has 3 short answer type questions of 2 marks each, 3 short answer type questions of 3 marks each and 1 long answer type question of 5 marks.
5. Section D has 1 case based question of 5 marks.

Q. No.	SECTION – A	Marks
	Choose the correct option in each of the following questions (1 to 10):-	
1	Predecessor of -20 is (a)-20 (b) -19 (c) -21 (d) -22	1
2	If 4/3 of a number is 16, the number is (a) 9 (b) 12 (c) 18 (d) 3	1
3	Additive inverse of 7 is (a) -7 (b) 7 (c) 0 (d) 1	1
4	Median of data 9, 8, 1, 2, 3, 6, 7, 5, 4 (a) 5 (b) 9 (c) 6 (d) 4	1
5	If 9m = 45, then the value of m is (a) 5 (b) 6 (c) 9 (d) 7	1
6	If two angles are supplementary then the sum of their measure is (a) 90^0 (b) 180^0 (c) 360^0 (d) 45^0	1
7	In Pythagoras property triangle must be _____. (a)right (b) acute (c) obtuse (d) any of these	1
8	Which of the following is the ratio of 3Km to 300m? (a) 10:1 (b) 1:10 (c) 100 : 1 (d) 1:100	1
9	A line that intersects two or more lines at distinct points is called (a) Parallel (b) transversal (c) intersecting (d) none of these	1
10	How many medians a triangle can have? (a) 2 (b) 1 (c) 3 (d) 0	1
	SECTION – B	
11	Find the mode of the given set of numbers: 1, 1, 2, 4, 3, 2, 1, 2, 2, 4	1
12	_____is the multiplicative identity for integers.	1
13	$2.001 \div 0.003 =$ _____	1
14	Write equation for the following statement – "7 times m plus 7 gets you 77".	1
15	Convert $\frac{5}{4}$ to percent.	1
	SECTION - C	
16	In a class test containing 15 questions, 4 marks are given for every correct answer and (–2) marks are given for every incorrect answer. Gurpreet attempts all questions but only 9 of her answers are correct. What is her total score?	2
17	A batsman scored the following number of runs in six innings: 36, 35, 50, 46, 60, 55. Calculate the mean runs scored by him in an inning.	2

18	Find the value of x in the given figure if l || m.	2
19	Shyama bought 5 kg 300 g apples and 3 kg 250 g mangoes. Sarala bought 4 kg 800 g oranges and 4 kg 150 g bananas. Who bought more fruits? Or Suman studies for $5\frac{2}{3}$ hours daily. She devotes $2\frac{4}{5}$ hours of her time for Science and Mathematics. How much time does she devote for other subjects?	3
20	The sum of three times a number and 11 is 32. Find the number.	3
21	Find the values of x and y in the given figure:	3
22	Arun bought a car for Rs 3,50,000. The next year, the price went upto Rs 3,70,000. What was the Percentage of price increase? Or If Rs 10,000 is invested at 5% interest rate p.a., find the interest and the amount to be paid at the end of 2 years.	5
	SECTION - D (CASE BASED)	

23	The bar graph given below represents the number of students studying in five different schools of a city. Study the bar graph and answer the following questions.
	
	   a) Which school has the maximum number of students and how much?
	   b) How many schools are having students less than 1200?
	   c) Find the ratio of the number of students in schools *A* and *D*.
	   d) What is the difference between the number of students in schools B and C?
	   e) How many total students are there in all the schools?
		5