Roll No. | | | | | |

INDIAN SCHOOL SALALAH

SECOND TERM EXAMINATION – FEB-MARCH 2026

Class: VII **MATHEMATICS (041)** **Date:01/03/2026**

Time: 3 hours **Maximum Marks: 80**

General Instructions:

a) All questions are compulsory.

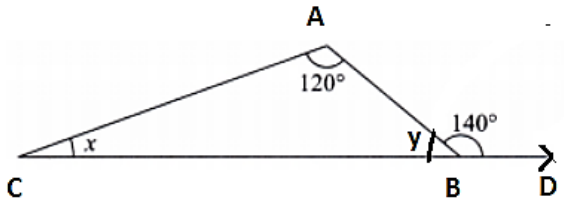
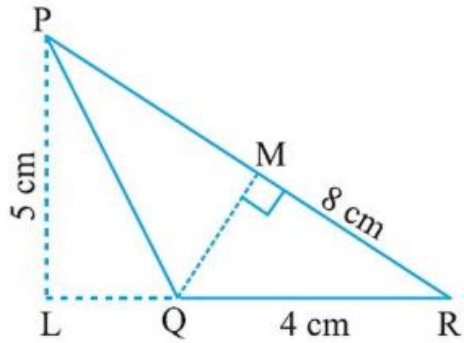
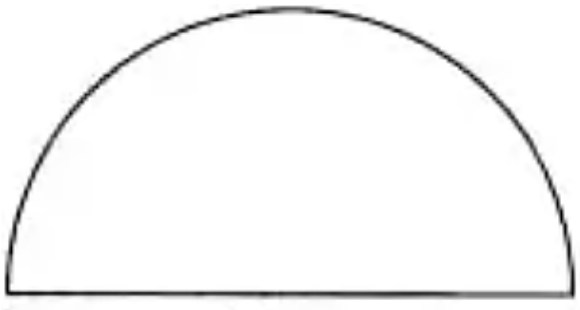
b) This question paper consists of 30 questions divided into 5 sections.

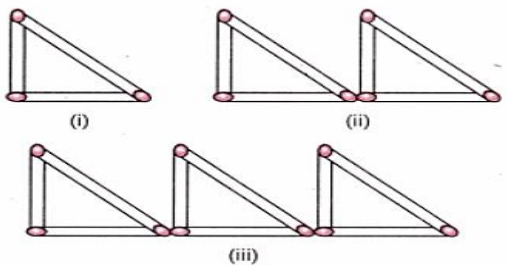
c) Section A contains 6 questions (MCQs) of 1 mark each. Section B contains 6 questions of 2 marks each.

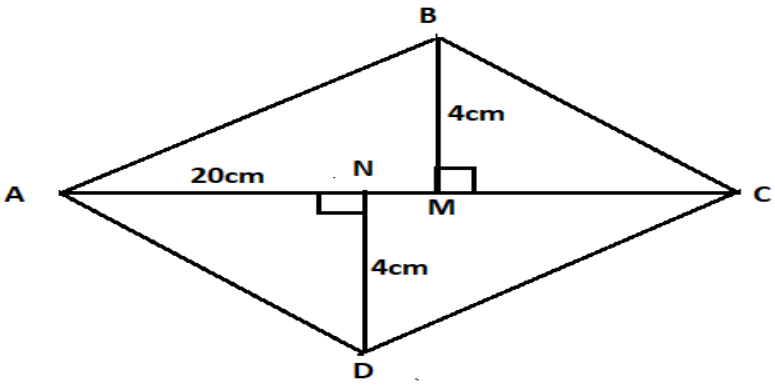
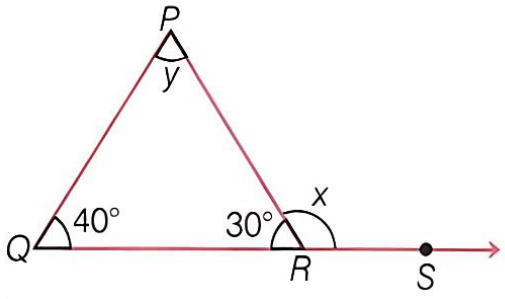
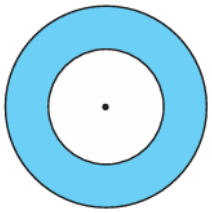
Section C contains 10 questions of 3 marks each. Section D contains 7 questions of 4 marks each and section E contains one case study question of 4 marks.

d) Internal choices have been provided in Section C and Section D. You have to attempt only one of the choices in such questions.

NO	**SECTION A**	**MARKS**
1	Two angles of a triangle are 82° and 28°, then the third angle is a) 70° b) 110° c)100° d)130°	1
2	The parity of the sum of the numbers from 1 to 50. a) odd b) even c) even and odd both d) none of these	1
3	What is the mode of the following set of numbers? 1, 2, 3, 2, 1, 5, 6, 1 a) 2 b) 3 c) 1 d) 5	1
4	The circumference of a circle of diameter d is a) πr^2 b) πd c) $3\pi r$ d) none of these	1
5	The algebraic expression of 7 more than a number is a) $7x$ b) $7+x$ c) $7-x$ d) none of these	1
6	The area of a square is 121 m^2. Its side is a) 21 m b) 31m c) 11 m d) 9 m	1
	SECTION B	
7	In Δ XYZ , if $\angle X = 80°$ and $\angle Y = \angle Z$. Find $\angle Y$ and $\angle Z$.	2
8	If the perimeter of a square is 24 cm, find its area.	2
9	Find the mean of the first 5 prime numbers.	2

10	Simplify: 5a + 7b -7 -9a +2b +5	2
11	In a 3×3 magic square with centre number 10, what is the magic sum?	2
12	Can a triangle have side lengths 6 cm, 8 cm, and 10 cm? Justify your answer.	2
	SECTION C	
13	Find the value of the unknown angles:  	3
14	Two siblings, Manish and Mahesh, were born exactly one year apart. Today they are celebrating their birthday. Mahesh exclaims that the sum of their ages is 98. Is this possible? why or why not?	3
15	In ΔPQR, PR = 8cm, QR = 4 cm and PL=5cm, Find i) the area of the ΔPQR ii) length of QM  **OR** Find the perimeter of the adjoining figure, which is semicircle including its diameter is 28 cm. 	3
16	Mind the mistake, Mend the Mistake. If m = 5,n = 2 then 2m – n + 5 = – 8	3

17	The weights (in kg) of 15 students of a class are: 50,40,43,38,47,38,42,35,37,45,32,43,43,36,43 a) Find the mode and median of this data. b) Is there more than one mode?	3
18	Calculate the mean and range of the following data :1.3 ,3.1,8.5,6.2,3.1,9	3
19	Write an expression for each situation: a) Rita has y apples. She buys 9 more. How many apples does she have now? b) A number k is multiplied by 4 and then 3 is added. c) Three times a number p decreased by 5.	3
20	Solve the cryptarithm: $\begin{array}{r} 8\,A\,9 \\ +\,C\,5\,B \\ \hline 1\,5\,9\,2 \end{array}$	3
21	The length and breadth of a rectangular field are equal to 600 m and 400 m respectively. Find the cost of the grass to be planted in it at the rate of ₹ 2.50 per m^2.	3
22	Subtract 4x + 5y +1 from 3x – y + 2. Hence find the value of the result when x = 5 and y = 2.	3
	SECTION D	
23	Create a 3 × 3 magic square whose magic sum is 54 using nine consecutive numbers.	4
24	Reema is making matchstick patterns given in the picture.  a) Identify the pattern? b) Write an algebraic expression representing this pattern for number of matchsticks used. c) How many matchsticks are needed to make 7 such triangles?	4

25	Find the area of quadrilateral ABCD here AC =20 cm, BM = 4 cm, DN = 4cm and BM⊥ AC and DN ⊥ AC.  	4
26	In the given figure, find the value of 2x and y.  	4
27	A wire of length 352 cm is first bent into a square and then into a circle. Which one will have more area? **OR** The adjoining figure shows two circles with the same centre. The radius of the larger circle is 10 cm and the radius of the smaller circle is 5 cm. Find (a) the area of larger circle. (b) the area of the smaller circle. (c) the shaded area between the two circles. ($\pi = 3.14$) 	4
28	a) A door is initially unlocked. Maya toggles the lock 60 times, where each toggle switches the state (unlocked to locked or locked to unlocked). Will the door be locked or unlocked at the end? b) What is the 15^{th} odd number in the sequence 1,3,5,7…….?	4
29	The data given below shows the production of cars in a factory for few months of two consecutive years.	4

a) Draw a double bar graph using appropriate scale to depict the above information and compare them.

Month	Year 2009	Year 2010
June	2000	1500
July	3000	4000
August	4200	4500
December	5000	5500

b) Find mean production in the year 2009.

SECTION E

Case-study based question. Read the following passage and answer the questions given below:

30 Rosy is organising a school fair. She is in charge of budgeting for various stalls. She notes the following expenses:

- The cost of each food stall is ₹ x.
- The cost of each game stall is ₹ y.
- She plans to have 4 food stalls and 3 game stalls.

There is a fixed decoration cost of ₹ 300.

Based on the above information, answer the following questions.

a) Write an expression for the total cost to organise the school fair. 1

b) What does the term 4x represent? 1

c) If the cost of each food stall is ₹200 and each game stall is ₹ 150, what will be the total cost? 2

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