



INDIAN SCHOOL SALALAH

SECOND TERM EXAMINATION – FEBRUARY – MARCH 2023



MATHEMATICS

Class: VI

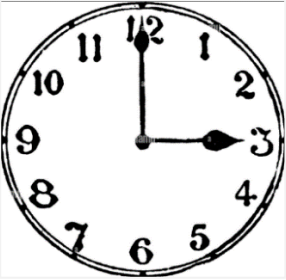
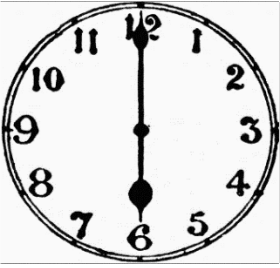
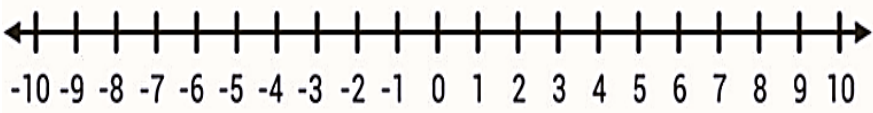
Time: 3 hours

Maximum Marks: 80

General Instructions:



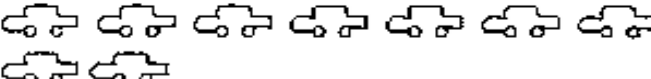
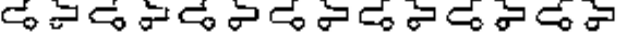


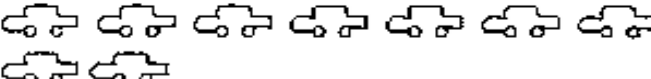
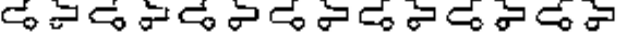


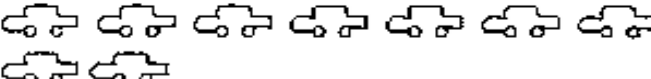
- All questions are compulsory.
- This question paper consists of 30 questions divided into 4 sections. Section A contains 6 questions of 1 mark each. Section B contains 6 questions of 2 marks each. Section C contains 10 questions of 3 marks each. Section D contains 8 questions of 4 marks each.

NO	SECTION A	MARKS
1	How many lines can pass through one given point?	1
2	How many diagonals are there in a hexagon?	1
3	How many integers are there between (-7) and (-1) ?	1
4	If $\frac{5}{8} = \frac{20}{p}$, then find the value of p .	1
5	Which is greater? 9.37 or 9.307	1
6	Arunima thinks a number ' x '. She multiplies the number by (-7) and subtracts it from 12. Write the algebraic expression for this statement.	1
	SECTION B	
7	<p>In the given figure, name the points</p> <p>a) In the interior of $\angle ABC$. b) In the exterior of $\angle ABC$.</p>	2

8	<p>Find the angle measure between the hands of the clock in each figure:</p> <p>a) </p> <p>b) </p>	2
9	<p>Observe the number line and answer the following questions:</p>  <p>a) Which number will we reach if we move 3 numbers to the right of (-1) ?</p> <p>b) If we are at -5 on the number line, in which direction should we move to reach (-9) ?</p>	2
10	<p>Ritu rode her bicycle $6\frac{1}{2}$ km in the morning and $8\frac{3}{4}$ km in the evening.</p> <p>Find the distance travelled by her altogether on that day.</p>	2
11	<p>Do as directed:</p> <p>a) Express 35cm in m using decimal.</p> <p>b) Express 6 mm in cm using decimal.</p>	2
12	<p>a) Fill in the blanks:</p> <p>If two ratios are equal then they are in.....</p> <p>b) Are 12, 15, 4, 5 form a proportion? Why?</p>	2
SECTION C		
13	<p>A scooter travels 260 km in 5 litres of petrol. How much distance will it cover in 3.5 litres of petrol?</p>	3
14	<p>Draw a rough sketch of a regular pentagon. Connecting any three of its vertices, draw a triangle. Identify the type of triangle you have drawn.</p>	3
15	<p>State whether each of the following statements is True or False:</p> <p>a) Every positive integer is greater than 0.</p> <p>b) Every integer is either positive or negative.</p> <p>c) $5 + (-6) = -1$.</p>	3

16	Arrange $\frac{3}{4}, \frac{5}{9}, \frac{7}{18}, \frac{11}{12}$ in descending order.	3												
17	Ram bought few notebooks, pens and pencils for ₹ 207.50. He gave ₹500 note to shopkeeper. How much money did he get back from the shopkeeper?	3												
18	Let Kanika's present age by ' x ' years. Complete the following table, showing ages of her relatives.	3												
	<table border="1"> <thead> <tr> <th>No</th> <th>Situation (in ordinary language)</th> <th>Algebraic Expressions</th> </tr> </thead> <tbody> <tr> <td>i)</td> <td>Her brother is 2 years younger.</td> <td>.....</td> </tr> <tr> <td>ii)</td> <td>Her father's age exceeds her age by 35 years.</td> <td>.....</td> </tr> <tr> <td>iii)</td> <td>Mother's age is 3 years less than that of her father.</td> <td>.....</td> </tr> </tbody> </table>	No	Situation (in ordinary language)	Algebraic Expressions	i)	Her brother is 2 years younger.	ii)	Her father's age exceeds her age by 35 years.	iii)	Mother's age is 3 years less than that of her father.	
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19	Find a) $(-6) - 9 - (-22)$ b) $(-17) + 35 - 10 - 2$	3												
20	What is the ratio of the number of prime numbers to the number of composite numbers between 1 and 30 with 1 and 30 inclusive?	3												
21	Give algebraic expressions in the following cases: a) One more than twice the number x . b) The perimeter of an equilateral triangle, if side of the triangle is ' m '. c) 3 times of a number y is added to the smallest natural number.	3												
22	a) If $x : 45 :: 4 : 15$, then find the value of x . b) Raju purchases 10 pens for Rs 150 and manish buys 7 pens for ₹ 84. Who got the pen cheaper?	3												

SECTION D												
23	<p>Illustrate, if possible, each one of the following with a rough diagram:</p> <p>a) A closed curve that is not a polygon.</p> <p>b) An open curve made up of line segments.</p> <p>c) A polygon with two sides.</p> <p>d) A closed curve that is a polygon.</p>	4										
24	<p>a) Draw any line segment, say $\overline{AB} = 10\text{cm}$. Take any point C lying in between A and B.</p> <p>b) Measure the length of BC and AC.</p> <p>c) Is $AB = AC + CB$?</p> <p>d) Is $AB + BC = CA$?</p>	4										
25	<p>Match the items of column I with column II:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: center;">Column I</th> <th style="width: 50%; text-align: center;">Column II</th> </tr> </thead> <tbody> <tr> <td>i) The additive inverse of -2</td> <td style="text-align: center;">0</td> </tr> <tr> <td>ii) The greatest negative integer.</td> <td style="text-align: center;">-2</td> </tr> <tr> <td>iii) The greatest negative even integer.</td> <td style="text-align: center;">2</td> </tr> <tr> <td>iv) The smallest integer greater than every negative integer.</td> <td style="text-align: center;">-1</td> </tr> </tbody> </table>	Column I	Column II	i) The additive inverse of -2	0	ii) The greatest negative integer.	-2	iii) The greatest negative even integer.	2	iv) The smallest integer greater than every negative integer.	-1	4
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26	<p>a) 5.3 cm is added to 0.34 cm. Answer found by four students are given below. Who wrote the correct answer?</p> <p>b) $3.65 \times 100 = \dots\dots\dots$ (Fill in the blanks)</p> <p>c) What is the decimal form of $\frac{3}{1000}$?</p> <p>d) What is the fractional form of 0.70?</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-left: auto; margin-right: auto;"> <p>Anu - 2.67 cm</p> <p>Vinu- 30.2 cm</p> <p>Ragu- 5.64 cm</p> <p>Ram- 0.42 cm</p> </div>	4										
27	<p>The blood groups of 25 students are recorded as under:</p> <p style="text-align: center;">A , B , O , A , AB , O , A , O , B , A , O , B , A , AB , AB , A , A , B , B , O , B ,</p> <p style="text-align: center;">AB , O , A , B</p> <p>Arrange the information in a table by using tally marks.</p>	4										

28	<p>a) Add the fractions $5\frac{3}{8}$ and $\frac{5}{16}$</p> <p>b) Write any two equivalent fractions of $\frac{3}{7}$.</p>	4												
29	<p>a) The diameter is the longest chord of a circle which passes through centre of the circle and end point lies on the circle. Express the diameter d of the circle in terms of its radius r.</p> <p>b) If length of a rectangle is 3 times its breadth, find the expression for its perimeter and area, given that the breadth is cm .</p>	4												
30	<p>Mr. Rahul made a pictograph given below to show the number of cars washed at a car washing station during three days of a week.</p> <table border="1" data-bbox="317 763 1206 1095"> <thead> <tr> <th data-bbox="317 763 528 875">Days</th> <th data-bbox="528 763 874 875">Number of cars washed</th> <th data-bbox="874 763 1206 875">One  = 5 cars</th> </tr> </thead> <tbody> <tr> <td data-bbox="317 875 528 931">Friday</td> <td data-bbox="528 875 874 931"></td> <td data-bbox="874 875 1206 931"></td> </tr> <tr> <td data-bbox="317 931 528 1043">Saturday</td> <td data-bbox="528 931 874 1043"></td> <td data-bbox="874 931 1206 1043"></td> </tr> <tr> <td data-bbox="317 1043 528 1095">Sunday</td> <td data-bbox="528 1043 874 1095"></td> <td data-bbox="874 1043 1206 1095"></td> </tr> </tbody> </table> <p>From the pictograph, find that:</p> <p>a) How many cars were washed on Friday and Saturday?</p> <p>b) On which day the maximum number of cars were washed at the station?</p> <p>c) On which day the minimum number of cars were washed at the station?</p> <p>d) How many more cars were washed on Saturday than on Friday?</p>	Days	Number of cars washed	One  = 5 cars	Friday			Saturday			Sunday			4
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