



INDIAN SCHOOL SOHAR
TERM II EXAMINATION (2022-23)
MATHEMATICS


CLASS: VI
DATE: 09-03-2023

MAX. MARKS:80
TIME: 3 HOURS

General Instructions: -

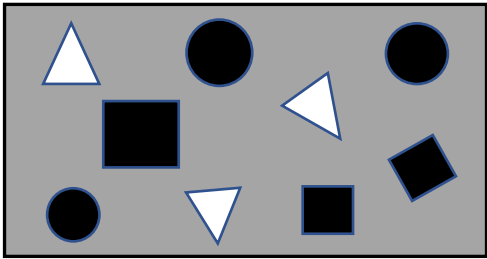
1. This Question Paper has 5 sections A, B, C, D and E.
2. Section A has 15 Multiple Choice Questions (MCQs) carrying 1 mark each.
3. Section B has 6 Short Answer-I type questions carrying 2 marks each.
4. Section C has 7 Short Answer-II type questions carrying 3 marks each.
5. Section D has 6 Long Answer type questions carrying 4 marks each.
6. Section E has 2 Case Based integrated units of assessment (4 marks each). Case I with sub-parts of the values 1, 1 and 2 marks each respectively and Case II with sub-parts of the values 2 and 2 marks each respectively.
7. All questions are compulsory. However, an internal choice in 2 Questions of 2 marks, 3 Questions of 3 marks and 3 Questions of 4 marks has been provided. An internal choice has been provided in the 2 marks Question in Case I of Section E.

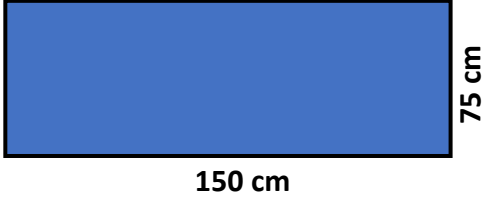
SECTION A		
SECTION A consists of 15 questions of 1 mark each		
S. No.	QUESTIONS	MARKS
1.	Which is the greatest negative integer? (A) 0 (B) -10 (C) -9 (D) -1	1
2.	What is the value of $\frac{3}{7} + \frac{4}{7}$? (A) $\frac{7}{14}$ (B) 1 (C) 2 (D) $\frac{8}{7}$	1
3.	The place value of 8 in 130.387 is: (A) $\frac{8}{1000}$ (B) 8×100 (C) $\frac{8}{10}$ (D) $\frac{8}{100}$	1
4.	Perimeter of a regular octagon with each side measuring 9 m is: (A) 72 m (B) 17 m (C) 27 m (D) 64 m	1
5.	Successor of (-10) is: (A) -11 (B) -12 (C) -9 (D) 11	1
6.	Which is an equation with a variable? (A) $5 + 2 = 7$ (B) $2y - 9 = 11$ (C) $2x + 6y$ (D) $2 \times 3 - 5 (3 + 4)$	1
7.	What is the missing number in the equivalent ratio $24 : 18 :: \square : 9$? (A) 12 (B) 4 (C) 13 (D) 2	1

8.	Pictorial representation of data is called: (A) Tally mark (B) Pictograph (C) Frequency (D) Data	1
9.	Which integer is neither positive nor negative? (A) 0 (B) 1 (C) 2 (D) -1	1
10.	Which is the proper fraction? (A) $\frac{5}{3}$ (B) $\frac{9}{7}$ (C) $3\frac{5}{6}$ (D) $\frac{2}{11}$	1
11.	6 km 55 m in km is written as: (A) 6.055 (B) 6.55 (C) 6.505 (D) 60.55	1
12.	Amita runs 'y' metres in 1 minute, find how much distance will she cover in an hour. (A) 12y (B) 5y (C) 60y (D) 30y	1
13.	What is the frequency of the given tally marks?  (A) 6 (B) 10 (C) 11 (D) 5	1
14.	Area of a square of side 7 m is: (A) 7 m ² (B) 49 m ² (C) 28 m ² (D) 70 m ²	1
15.	Expression of $7\frac{2}{5}$ as an improper fraction is: (A) $\frac{70}{5}$ (B) $\frac{14}{5}$ (C) $\frac{19}{5}$ (D) $\frac{37}{5}$	1

SECTION B

SECTION B consists of 6 questions of 2 marks each

16.	See the figure and find the ratio of (i) Number of triangles to the number of circles inside the rectangle. (ii) Number of squares to all the figures inside the rectangle. OR An office opens at 9 a.m. and closes at 5 p.m. with a lunch interval of 30 minutes. What is the ratio of lunch interval to the total period of the office?		2
17.	Find the equivalent fraction of $\frac{2}{7}$ with (i) Numerator 16 (ii) Denominator 49. OR Rafiq exercised for $\frac{3}{6}$ of an hour, while Rohit exercised for $\frac{2}{5}$ of an hour. Who exercised for a longer time?		2
18.	Add $8 + (-3)$ using number line.		2

19.	Write the expression for the following: (i) "8 subtracted from the product of 3 and y" (ii) Mother has made laddus. She gives some laddus to guests and family members; still 10 laddus remain. If the number of laddus mother gave away is 'l', how many laddus did she make?	2
20.	Find the perimeter of the rectangle given below. 	2
21.	Answer the following: (i) Write 0.16 as a fraction in the lowest form. (ii) Write $30 + \frac{9}{1000}$ as a decimal.	2
SECTION C		
SECTION C consists of 7 questions of 3 marks each		
22.	Find the value of $\{75 - (-15) + (-32) - 50\} - 3$ OR Write the following numbers as integers with appropriate signs: (i) 150 m below sea level (ii) 25°C above 0°C temperature (iii) Deposit of ₹ 2000.	3
23.	Meera bought $20\frac{2}{5}$ m of red ribbon and $10\frac{1}{4}$ m of green ribbon. Find the total length of the ribbons bought by her.	3
24.	Find the value of: (i) $8.572 + 5.320 + 12.053$ (ii) $9.756 - 3.56$	3
25.	Find the correct solution of the equation " $8p - 1 = 39$ " from the values given in the bracket (0, 5, 8). Hence, show that the other values do not satisfy the equation. OR Venita is x years old at present. What is (i) Her age after 12 years? (ii) Her age 5 years ago? (iii) Her father's age, if father is 25 years older than Venita?	3

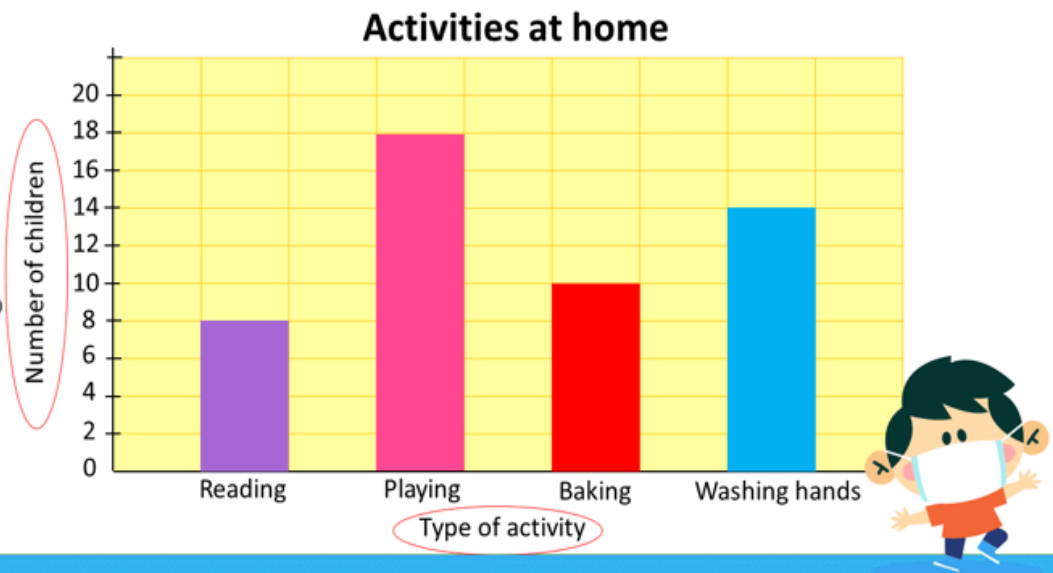
26. The grades obtained by 20 students of a class in Mathematics examination are given below:

A, A, B, A, D, B, C, D, C, B,
D, D, B, A, B, B, C, E, B, A

Prepare a table using Tally marks to show the grades secured by the students.

OR

The bar graph given shows the favorite activities of children at home. Read the bar graph and answer the following questions.



- (i) Which activity is most preferred?
- (ii) Which activity is least preferred?
- (iii) How many more children like playing than washing hands?

27. Find the cost of fencing a square park of side 200 m at the rate of ₹ 20 per metre.

28. Find the ratio of the following:

- (i) 46 km to 102 km
- (ii) 75 paise to ₹ 1
- (iii) 15 min to 1.5 hour



SECTION D

SECTION D consists of 6 questions of 4 marks each

29. The number of cycles produced by a factory in a week is given below.

Days	Monday	Tuesday	Wednesday	Thursday	Friday
No. of cycles produced	1050	900	1200	900	1400

Draw a bar graph to represent the above information using the scale 1 unit length = 100 cycles.

30.	<p>Rohit divided a watermelon into 22 parts. His brother ate 9 parts, and his friend ate 6 parts out of them.</p> <p>(i) What fraction of watermelon did his brother and friend eat together?</p> <p>(ii) What fraction of watermelon remained?</p> <p>(iii) How much more fraction of watermelon did Rohit's brother eat than his friend?</p> <p style="text-align: center;">OR</p> <p>Find the value of $3\frac{1}{3} + 4\frac{1}{6} - 2\frac{4}{5}$.</p>		4													
31.	<p>Sam had his pocket money of ₹ 5080.50. He spent ₹ 1058.75 for his father's birthday, ₹ 1078.25 for his mother's birthday and ₹ 852.50 for his friend's birthday. The balance amount he donated to charity.</p> <p>(i) How much amount did he spend for his parent's birthday?</p> <p>(ii) How much amount has he donated to charity?</p> <p style="text-align: center;">OR</p> <p>Ravi purchased 5 kg 500 g rice and 3 kg 30 g sugar and Sina purchased 8 kg 950 g flour and 2 kg 5 g vegetable oil.</p> <p>(i) Find the total weight of Ravi's purchase.</p> <p>(ii) Find the total weight of Sina's purchase.</p> <p>(iii) Who purchased more and by how much?</p>		4													
32.	<p>Complete the table and find the solution to the equation $m - 9 = 2$.</p> <table border="1" style="width: 100%; text-align: center;"> <tbody> <tr> <td>m</td> <td>7</td> <td>9</td> <td>11</td> <td>13</td> <td>14</td> <td>15</td> </tr> <tr> <td>$m - 9$</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	m	7	9	11	13	14	15	$m - 9$							4
m	7	9	11	13	14	15										
$m - 9$																
33.	<p>Show that the ratios 25 cm : 1 m and ₹ 20 : ₹ 80 form a proportion and write the middle terms and extreme terms.</p>	4														
34.	<p>A floor is 6 m long and 4 m wide. A square carpet of sides 4 m is laid on the floor. Find the area of the floor that is not carpeted.</p> <p style="text-align: center;">OR</p> <p>A rectangular park is of length 175 m and breadth 120 m.</p> <p>(i) Ranbir runs around the park 2 times. What is the distance covered by him?</p> <p>(ii) What is the area of the park?</p>	4														

SECTION E

SECTION E consists of 2 case-based questions of 4 marks each

35.

Case I: -

In a class of 200 students, 50 joined in sports activity, 75 joined in dance activity, 60 joined in music activity and the remaining joined in environmental activity.



- (i) Find the ratio of number of students those who joined in sports activity to the number of students those who joined in dance activity. 1
- (ii) Find the ratio of number of students those who joined in music activity to the number of students those who joined in dance activity. 1
- (iii) Find the ratio of number of students those who joined in environmental activity to the number of students those who joined in sports activity. 2

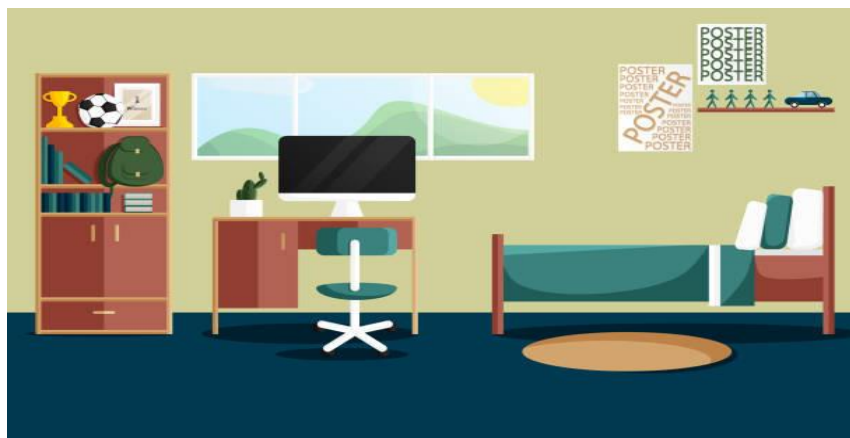
OR

If 5 more students are joined in the dance activity and 10 students left from the sports activity, find the ratio of number of students joined in the dance activity to the number of students joined in the sports activity.

36.

Case II: -

Jay wants to cover his room which is 4 m wide and 6 m long by squared tiles. Each side of the square tile is 50 cm.



- (i) What is the area of the floor and a tile? 2
- (ii) Find the number of tiles required to cover the floor of the room. 2