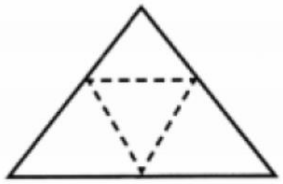
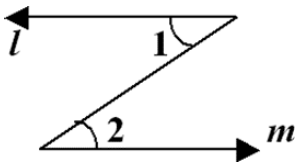
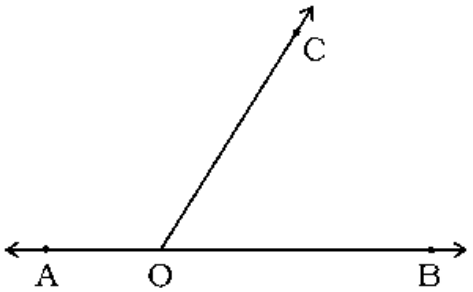
IDEAL INDIAN SCHOOL, DOHA - QATAR
TERM 1 EXAMINATION, OCTOBER 2023
Subject: MATHEMATICS

Class: VII **Max Marks: 80**
Date: 10-10-2023 **SET 1** **Duration: 3 hrs.**

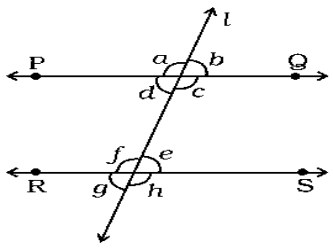
General Instructions:

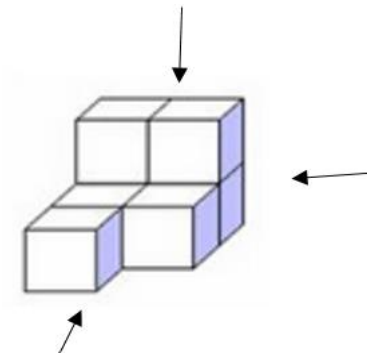
1. The question paper contains 38 questions. All questions are compulsory.
2. The Question Paper is divided into FIVE Sections- Section A, B, C, D, and E.
3. In Section-A question number 1 to 18 are Multiple Choice Questions (MCQs) and question number 19 and 20 are Assertion-Reason based questions of 1 mark each.
4. In Section-B question number 21 to 25 are Very Short- Answer-I (SA-I) type questions of 2 marks each.
5. In Section-C question number 26 to 31 are Short Answer-II (SA-II) type questions carrying 3 marks each.
6. In Section-D question number 32 to 35 are Long Answer (LA) type questions carrying 5 marks each.
7. In Section-E question number 36 to 38 are Case Based integrated units of assessment questions carrying 4 marks each. Internal choice is provided in 2 marks question in each case study.
8. There is no overall choice. However, an internal choice has been provided in 2 questions in Section-B, 2 questions in Section-C, 2 questions in Section-D and 3 questions in Section-E.
9. Use of calculator is NOT allowed.

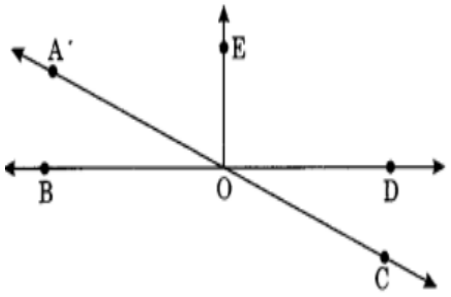
Q.No.	SECTION - A Section A consists of 20 questions of 1 mark each.	Marks
1	The range of the data : 21, 6, 17, 18, 12, 8, 4, 13 is (a) 17 (b) 12 (c) 8 (d) 15	1
2	Which of the following is not true? (a) $0 \div 2 = 0$ (b) $-25 \div 5 = -5$ (c) $12 \div 0 = 12$ (d) $4 \div 1 = 4$	1
3	The value of 43.07×1000 is (a) 4.307 (b) 43070 (c) 43.07 (d) 430.7	1
4	Jack divided -350 and -7. What was the quotient? (a) -5 (b) 5 (c) -50 (d) 50	1
5	By folding the adjoining net we get  (a) Cone (b) Square pyramid (c) Prism (d) Triangular pyramid	1

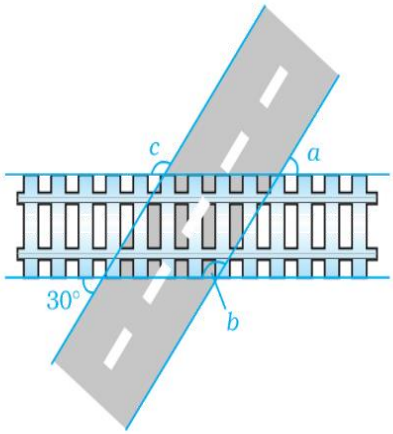
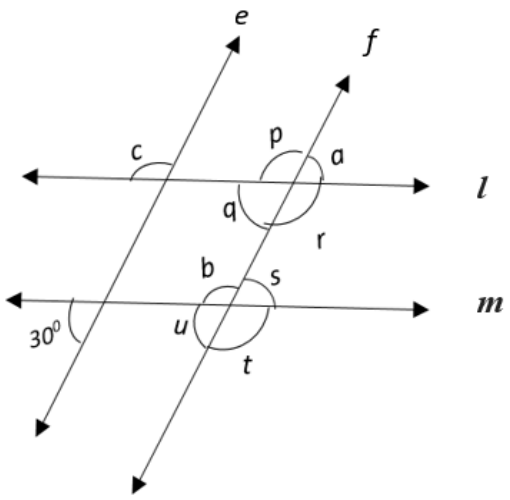
6	Which of the following does not represent pair of integer (a, b) such that a ÷ b = 2? (a) (– 6 , – 3) (b) (– 2 , 1) (c) (– 10 , – 5) (d) (8 , 4)	1
7	If $l \parallel m$, then ∠1= ∠2 because they are,  (a) corresponding angles (b) vertically opposite angles (c) alternate interior angles (d) supplementary angles	1
8	If 7y = 0 then y equals (a) 7 (b) 1 (c) 0 (d) not defined	1
9	If we multiply eleven negative integers and eight positive integers, the result will be (a) Positive (b) Negative (c) 0 (d) 1	1
10	How much amount each gets if ₹ 235. 50 is equally divided among 5 people? (a) ₹ 47.10 (b) ₹ 23.55 (c) ₹ 47.00 (d) ₹ 1175.50	1
11	∠AOC and ∠ BOC form a pair of  (a) corresponding angles (b) complementary angles (c) alternate interior angles (d) supplementary angles	1
12	The reciprocal of $21\frac{3}{5}$ is (a) $21\frac{5}{3}$ (b) $\frac{5}{63}$ (c) $\frac{5}{3}$ (d) $\frac{5}{108}$	1
13	A cuboid is a prism with -------- rectangular faces. (a) 6 (b) 4 (c) 12 (d) 8	1

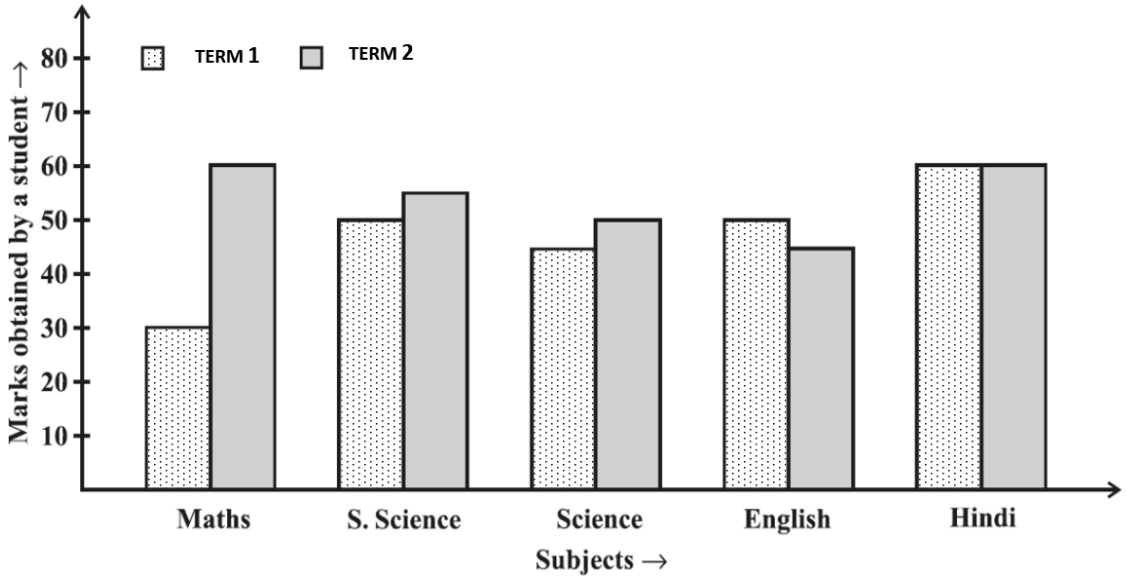
14	Which of the following has the same mean, median and mode? (a) 6, 2, 5, 4, 3, 4, 1 (b) 4, 2, 2, 1, 3, 2, 3 (c) 2, 3, 7, 3, 8, 3, 2 (d) 4, 3, 4, 3, 4, 6, 4	1
15	Number of edges in a square pyramid is (a) 8 (b) 6 (c) 10 (d) 12	1
16	In a set of observations, the observation that occurs the most often is called _____. (a) Mode (b) Median (c) Mean (d) Range	1
17	The equation for the statement "If you subtract 5 from 6 times a number, you get 7" is : (a) $6x - 5 = 7$ (b) $5x - 6 = 7$ (c) $x - 5 = 7$ (d) $x - 6 = 7$	1
18	The solution of the equation $\frac{3p}{10} = 6$ is (a) 10 (b) 20 (c) 30 (d) 60	1
	DIRECTION: In question number 19 and 20, a statement of assertion (A) is followed by a statement of Reason (R) . Choose the correct option.	
19	Assertion(A): If angles a and b form a pair of complementary angles and $a = 40^0$, then $b = 60^0$ Reason (R) : Sum of the measures of complementary angles is 90^0. (a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A) (b) Both assertion (A) and reason (R) are true and reason (R) is not the correct explanation of assertion (A) (c) Assertion (A) is true but reason(R) is false. (d) Assertion (A) is false but reason(R) is true.	1
20	Assertion (A): The solution of the equation $x - 3 = 0$ is 3 Reason (R) : The value of the variable for which the equation is satisfied is called the solution of the equation. (a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A) (b) Both assertion (A) and reason (R) are true and reason (R) is not the correct explanation of assertion (A) (c) Assertion (A) is true but reason(R) is false. (d) Assertion (A) is false but reason(R) is true.	1

	SECTION – B **Section B consists of 5 questions of 2 marks each.**	
21	Find the mean of the first ten even natural numbers.	2
22	Write down a pair of integers whose: (a) sum is -3 (b) difference is -5	2
23	If $x = \frac{3}{5}$ and $y = \frac{15}{21}$ then find the value of $x \times y$ **OR** Represent pictorially : $3 \times \frac{1}{5} = \frac{3}{5}$	2
24	Write the following equations in statement form. (i) $\frac{m}{5} - 2 = 6$ (ii) $5t = 20$ **OR** The sum of twice a number and 4 is 18. Find the number.	2
25	Draw a cube and write the number of faces ,edges and vertices.	2
	SECTION – C **Section C consists of 6 questions of 3 marks each.**	
26	In Fig., PQ||RS and $a : b = 3 : 2$. Then, find f and e.  **OR** Among two supplementary angles the measure of the larger angle is 44^0 more than the measure of the smaller. Find their measures.	3
27	Solve the following equations: (i) $10y + 10 = 100$ (ii) $2p - 8 = 0$ (iii) $\frac{x}{5} = \frac{2}{15}$	3

28	For the solid given below sketch the front, side and top view. 	3
29	Observe the given data: **Days of the Week** | **Mon** | **Tues** | **Wed** | **Thurs** | **Fri** | **Sat** **Number of Mobile Phone Sets Sold** | 50 | 45 | 30 | 55 | 27 | 60 (a) Draw a bar graph to represent the above given information. (b) On which day of the week was the sales maximum?	3
30	Find the following products. (i) $(-8) \times (-5) \times (-6)$ (ii) $(-10) \times (-13) \times (-10) \times (-11)$ **OR** If a $= -30$, b $= 10$ and c $= -5$, verify that: $a \div (b + c) \neq a \div b + a \div c$	3
31	The number of hours spent for studying by Geetika during a week are 8 hours,6 hours, 9 hours, 8 hours,12 hours,8 hours and12 hours. Find the mean, median and mode.	3
	SECTION – D **Section D consists of 4 questions of 5 marks each.**	
32	In a class test (+5) marks are given for every correct answer and (−2) marks are given for every incorrect answer. (i) Meera answered all the questions and scored 40 marks though she got 10 correct answers. (ii) Radhika also answered all the questions and scored (-10) marks though she got 6 correct answers. How many incorrect answers had they attempted?	5

33	In the given figure, name the following pairs of angles.  (i) Adjacent complementary angles. (ii) Equal supplementary angles. (iii) Unequal supplementary angles. (iv) Adjacent angles but do not form a linear pair	5
34	Solve the following (i) In a family, the consumption of wheat is 4 times that of rice. The total consumption of the two cereals is 80 kg. Find the quantities of rice and wheat consumed in the family. (ii) $-4(x+3)=16$ **OR** Solve the following (i) People of Sundargram planted trees in a village garden. Some of the trees were fruit trees. The number of non-fruit trees were two more than three times the number of fruit trees. What was the number of fruit trees planted if the number of non-fruit trees planted was 95? (ii) Sachin scored twice as many runs as Rahul. Together, their runs fell two short of a double century. How many runs did each one score?	5
35	Find (i) A car covers a distance of 89.1 km in 2.2 hours. What is the average distance covered by it in 1 hour? (ii) A two- wheeler covers a distance of 55.3 km in one litre of petrol. How much distance will it cover in 20 litres of petrol? **OR** Find (i) Ramu finishes $\frac{1}{3}$ part of a work in 1 hour. How much part of the work will be finished in $2\frac{1}{5}$ hours? (ii) $3\frac{1}{5} \div 1\frac{2}{3}$	5

	SECTION –E **Section E consists of 3 case study based questions of 4 marks each.**	
36	Arun was going on a road trip with his father. They were travelling on a straight road. After riding for some distance, they reach a place where a road crosses a railway line at an angle of 30°. Now using the given information answer the following questions.   **Lines $l \parallel m$, $e \parallel f$:** (i) What is the value of s + r ? (ii) What is the value of a ? (iii) Find the values of b and c. **OR** (iii) Write four pairs of corresponding angles.	1 1 2
37	Ram Sharan who is working in a multinational company earns ₹ 50000 per month. Out of his earnings, he spend $\frac{1}{10}$ th on food items, $\frac{1}{4}$ th on shopping with family , $\frac{1}{5}$ th on education of his two kids and rest of his money he puts in his savings. On basis of this information given in passage answer the following questions. (i) How much money he spend on food items? (ii) How much money he spend on shopping? (iii) Calculate the amount spend by Ram Sharan on education of children. **OR** (iii) How much money he saved?	1 1 2

38	The class teacher of class VII preparing result analysis of a student .She compares the marks of a student obtained in Term 1 and Term 2 using the double bar graph as shown below.  (i) In which subject has the performance improved the most? (ii) In which subject has the performance gone down? (iii) What is the difference in Maths Subject? **OR** (iii) Calculate the average marks of the student in Term 1	1 1 2