INDIAN SCHOOL SOHAR

PERIODIC TEST II (2022-23)

MATHEMATICS

CLASS VIII	MAX. MARKS: 20
DATE: 16-01-2023	TIME: 40 MINUTES

General Instructions:

- This question paper has three sections A-C.
- Section A has 5 MCQs carrying 1 mark each.
- Section B has 3 questions carrying 2 mark each.
- Section C has 3 questions carrying 3 mark each.
- All questions are compulsory. However, an internal choice in one question of 1 mark, one question of 2 marks and one question of 3 marks has been provided.
- Draw neat figures wherever required.

	SECTION A (Each question carries 1 mark)	
Q. No	**Question**	**Marks**
1.	The product of $(3x) \times (4x) \times (-6x^3)$ is a) $(-72x^3)$ b) $(72x^4)$ c) $(-72x^5)$ d) $(72x^5)$	1
2.	The value of $3x(x^2 + x + 1) + 5 \ for \ x = 1$ is a) 14 b) 8 c) 10 d) 15	1
3.	The product of $(5 - 2x) \times (3 + x)$ is a) $15 - 11x - 2x^2$ b) $15 - x - 3x^2$ c) $15 + x - 2x^2$ d) $15 - x - 2x^2$	1
4.	The diagonals of a rhombus are 8.5cm and 16cm. Its area is a) 136 sq.cm b) 68 sq.cm c) 680 sq.cm d) 1360 sq.cm **(OR)** The total surface area of a cube of side 7cm is a) 49 sq.cm b) 42 sq.cm c) 294 sq.cm d) 343 sq.cm	1
5.	A tile is in the shape of a trapezium. Its parallel sides are 15.5cm and 10.5cm. The perpendicular distance between the parallel sides is 11cm. Its area is a) 143 sq.cm b) 286 sq.cm c) 145 sq.cm d) 290 sq.cm	1

	SECTION B (Each question carries 2 marks)	
6.	Hema borrowed Rs 10000 from Varsha for 3 years at 10% per annum compounded annually. Find the amount that Hema will have to pay at the end of 3 years.	**2**
7.	Find the product of $(3xy + 5y)(3xy + 5y)$ using identities. **(OR)** Find the product of $(0.5p - 0.7q)(0.5p - 0.7q)$ using identities.	**2**
8.	The area of a trapezium shaped field is 480 sq. m, the distance between the parallel sides is 20 m. One of the parallel sides is 11 m. Find the other parallel side.	**2**
	SECTION C (Each question carries 3 marks)	
9.	Ravi deposits Rs 32000 in a bank which gives 5% per annum interest compounded half yearly. Find the interest and amount that he will receive after 1 ½ years. **(OR)** Manisha borrowed Rs 485000 from a bank to buy a car at the rate of 12% per annum compounded annually. What amount she has to pay at the end of 2 years to clear the loan?	**3**
10.	Subtract: $4a(a + b + c) - 3b(a - b + c)$ from $5c(-a + 2b + c)$	**3**
11.	A road roller takes 860 revolutions to move once over to level a road. Find the area of the road if the diameter of the road roller is 91 cm and length 1 m. (Value of $\pi = \dfrac{22}{7}$).	**3**

INDIAN SCHOOL SOHAR

PERIODIC TEST II (2022-23)

MATHEMATICS

CLASS VIII   MAX. MARKS: 20

DATE: 16-01-2023   TIME: 45 MINUTES

General Instructions:

- This question paper has three sections A-C.
- Section A has 5 MCQs carrying 1 mark each.
- Section B has 3 questions carrying 2 mark each.
- Section C has 3 questions carrying 3 mark each.
- All questions are compulsory. However, an internal choice in one question of 1 mark, one question of 2 marks and one question of 3 marks has been provided.
- Draw neat figures wherever required.

SECTION A (Each question carries 1 mark)		
Q. No	**Question**	**Marks**
1.	A tile is in the shape of a trapezium. Its parallel sides are 15.5cm and 10.5cm. The perpendicular distance between the parallel sides is 11cm. Its area is a) 143 sq.cm b) 286 sq.cm c) 145 sq.cm d) 290 sq.cm	1
2.	The product of $(5 - 2x) \times (3 + x)$ is a) $15 - 11x - 2x^2$ b) $15 - x - 3x^2$ c) $15 + x - 2x^2$ d) $15 - x - 2x^2$	1
3.	The value of $3x(x^2 + x + 1) + 5 \ for \ x = 1$ is a) 14 b) 8 c) 10 d) 15	1
4.	The diagonals of a rhombus are 8.5cm and 16cm. Its area is a) 136 sq.cm b) 68 sq.cm c) 680 sq.cm d) 1360 sq.cm **(OR)** The total surface area of a cube of side 7cm is a) 49 sq.cm b) 42 sq.cm c) 294 sq.cm d) 343 sq.cm	1

5.	The product of $(3x) \times (4x) \times (-6x^3)$ is	1
	a) $(-72x^3)$ b) $(72x^4)$ c) $(-72x^5)$ d) $(72x^5)$	

SECTION B (Each question carries 2 marks)

6.	The area of a trapezium shaped field is 480 sq. m, the distance between the parallel sides is 20 m. One of the parallel sides is 11 m. Find the other parallel side.	2
7.	Hema borrowed Rs 10000 from Varsha for 3 years at 10% per annum compounded annually. Find the amount that Hema will have to pay at the end of 3 years.	2
8.	Find the product of $(3xy + 5y)(3xy + 5y)$ using identities. **(OR)** Find the product of $(0.5p - 0.7q)(0.5p - 0.7q)$ using identities.	2

SECTION C (Each question carries 3 marks)

9.	Subtract: $4a(a + b + c) - 3b(a - b + c)$ from $5c(-a + 2b + c)$	3
10.	Ravi deposits Rs 32000 in a bank which gives 5% per annum interest compounded half yearly. Find the interest and amount that he will receive after 1 ½ years. **(OR)** Manisha borrowed Rs 485000 from a bank to buy a car at the rate of 12% per annum compounded annually. What amount she has to pay at the end of 2 years to clear the loan?	3
11.	A road roller takes 860 revolutions to move once over to level a road. Find the area of the road if the diameter of the road roller is 91 cm and length 1 m. (Value of $\pi = \frac{22}{7}$). 	3