ST. MARGARET SR. SEC. SCHOOL SAMPLE PAPER 2023-24 (MID TERM) CLASS-VIII

Time: 2.5 hrs. M.M.: 60

<u>SECTION-A</u> (Q1 to Q15 – MCQ Questions of 1 mark each)

Write correct op 1. A number of the fo			per if	
(a) p & q are integ	ers			
(b) p & q are integ	ers, q ≠ 0			
(c) p & q are integ	gers, $p \neq 0$			
(d) p & q are integ 2. What is the proba			e alphal	oets?
$(a)^{\frac{21}{26}}$	$(b)\frac{5}{26}$	(c) $\frac{1}{26}$		$(d)\frac{3}{26}$
3. $(-8)^2 \div (-8)^5 =$				
a) (-8) ⁻³	b) (8) ³	c) (-8) ⁻³		d) $(8)^3$
4. Multiplicative inve	erse of $(\frac{-1}{2} + \frac{3}{2})$ is	5		
a) -1	b) 1	c) $(\frac{1}{2} - \frac{3}{2})$		d) $(\frac{-1}{2} + \frac{2}{3})$
5. The quantity of o	il in litres that ca	in be stored in a t	ank wh	ich is the form of a cylinder
with $r = 1.5m$ an	d h = 7m is			
a) 49000 L	b) 49500L	c) 4950000	L	d) 4095 L
6. Standard form of	f 0.00000742 is			
(a) 7.42 x 10 ⁶	(b)7.42 x 10 ⁻⁶	(c) 742 x 10 ⁸	3	(d)742 x 10 ⁻⁸
7. Which of the follo	owing numbers v	vould have digit 6	at unit	ts place.
(a) 19 ²	(b) 24 ²	(c) 33 ²	(d)17	2
8. Pythagorean trip	let whose one m	ember is 6 is:		
(a)(5, 6, 10)	(b)(8, 6, 12)	(c)(12, 4, 6)	(d)(6,	12, 24)
9. The area of rhom	nbus whose diago	onals are of lengtl	h 10cm	and 8.2cm is:
(a)82cm²	(b)100cm ²	(c) 123cm ²	(d) 4	41cm ²

10. Value of $2^0 + 3^0$ is:

(a) 5 (b) 1 (c) 2 $(d)^{\frac{1}{26}}$

11. Which of the following number cannot be a perfect square?

a)	1478	b) 5041	c) 1600	d) 144		
12.	The probability blue balls is:	of drawing a gre	en ball from a b	ox containing	3 black,6 red and 5	
(a) $\frac{1}{2}$	(b) 1	(c) $\frac{2}{3}$	(d)0		
13. 7	The side of a c	cubical box with su	urface area of 60)0 cm² is:		
a	a) 10cm	b) 100cm	c) 6cm	d) 60cm		
14. /	A geometric re	presentation show	wing the relatior	ship between	a whole and its parts is a	
(a	a) Pie chart	(b) Tally marks	(c) B	ar graph	(d) Pictograph	
	The ratio of 16 a) 4:1	om to 4 km is (b) 1:4	(c) 1:25 SECTION -		(d) 250:1	
		(Q16 to	Q22 carry 2 m	arks each)		
	Simplify: (4 ⁻¹ - Find the side o	-8^{-1}) ÷ $\left(\frac{2}{3}\right)^{-2}$ of a cube whose su	urface area is 21	.6m².		
	Find the small perfect square		nich 9408 must l	oe divided so t	that the quotient is a	
 20. F	height 16cm. Find compound annually.		500 for 2 years a	at 10% per an	of the base is 3.5 cm and num compounded	
		ot of 0.1764 by di	-	.5		
			SECTION-	<u>C</u>		
			Q27 carry 3 n	_		
23.	A dice is rolle	d once. What is t	he probability th	nat the numbe	r on top will be	
24.	•	iting the walls and	_		(c) composite number length, breadth and	
	_	·			paint 50m ² of area is	
25	•	w many cans of pa		•		
	_	d the volume of the		ig its width di	nd a cylinder of radius 20cm	
			•	nich are rhomb	ous shaped and each of its	

diagonals are 45cm and 30cm in length. Find the total cost of polishing the floor, if the

cost per m² is ₹4.

27. Draw the pie chart showing the following information. The table shows the different activities preferred by a group of people.

Item	Food	Hobby	Recreation	Saving
Percent	25	20	40	15

SECTION-D

(Q28 to Q30 carry 4 marks each)

- 28. Find the square root of the following using long division method.
 - (a) 480249

- (b) 571536
- 29. The dimensions of a living room are $8m \times 6m \times 4.5m$. It has one door measuring $3m \times 2m$ and two windows each measuring $2m \times 1m$. It is required to get the interior walls of the room painted. Find the area of walls to be painted.
- 30. Simplify using laws of exponents:

$$\frac{25 \times t^{-4}}{5^{-3} \times 10 \times t^{-8}} \ (t \neq 0)$$

Section-E

Case study



- 31. Radha enters a shopping mall to purchase a frock. The list price of a frock was ₹220. A discount of 20% was announced on sales. What is the
- (i) amount of discount
- (ii) sale price