Class: VII

Subject: Maths (unsolved sample paper)

Summative Assessment -II

Time: 3	hours			MM: 80 Marks
N	ame:	class & section:	Roll.no	
		Invigilator's Name & Signature _		-

General instructions:

- (i) All questions are compulsory.
- (ii) The question paper consists of 34 questions divided in to 4 sections A, B, C and D.
- (iii) Section A contains 12 MCQ first 8 of I marks each and the next 4 of 2 marks each.
- (iv) Section B contains 7 questions of 2 marks each.
- (v) Section C contains 10 questions of 3 marks each.
- (vi) Section D contains 5 questions of 4 marks each.

SECTION A

- Q1. Find the ratio of 50 paise to Rs 5.
 - (a)1:1
- (b)1:10
- (c)1:100
- (d) 10:1

What will be the product of $(a^2) \times (2a^{22}) \times (4a^{26})$

- (a) 8a⁴⁶
- (b) $8a^{48}$ (c) $6a^{50}$
- (d) 8a⁵⁰



Q 3.	Area of a par	allelogram h	aving base 8 o	cm corresponding height 10 cm is-
	(a) 40 cm ²	(b) 80 cm ²	(c) 60 cm ²	(d) 120 cm ²
Q4.	Formula for \	olume of cyl	inder is-	
	(a)2πrh	(b) πr ² h	(c)2πr(r+h)	(d) $\pi r^3 h$
Q 5.	Find the valu	e of 3 ⁻²		
	(a) 9	(b) 1/9	(c) 6	(d) -6
Q6.	Which of the	following nu	mber is divisi	ble by 3-?
	(a) 1234	(b) 153	(c) 154	(d) 155
Q7.	The usual for	m of 100x7+	10x1+8 is -	
	(a) 187	(b) 871	(c) 178	(d) 817
				SECTION B
Q8.	Find the valu	e of 3 <i>x</i> (4 <i>x</i> -5) +3 for <i>x</i> =3	
	(a) 61	(b) 62	(c) 63	(d) 66
Q 9.	1 A			
	ХА			
	9 A			
	(a) 4	(b) 5	(c) 6	(d) 7
Q10	. The point of	fintersection	of x-axis & y	-axis is called -
	(a) Origin	(b) zero poin	t (c) co-ordi	nate (d) Starting point
Q11	.The value of	(a-b) ²		

(c) 8

(a) 6

(b) 7

Q2. Using Euler's formula, find the number of faces of polyhedron having 6 vertices & 12 edges.

(d) 9

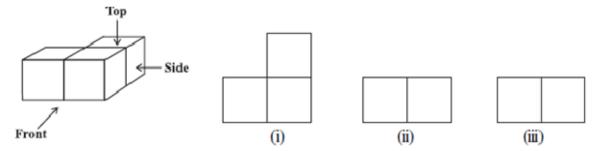
- (a) a^2-b^2 (b) a^2+b^2+2ab (c) $a^2-2ab+b^2$ (d) a^2-b^2+2ab
- Q12. Convert 3:4 into percentage.
- Q13. Add: ab-bc, bc-ca, ca-ab.
- Q14. What are polyhedrons?
- Q15. The diagonals of rhombus are 7.5 cm & 12 cm. Find its area.
- Q16. (i) Express 0.000000000085 in standard form.
 - (ii) Express 4.5×10^4 in usual form.
- Q17. Which of the following are in inverse proportion?
 - (a) The number of workers on a job and the time to complete the job.
 - (b) Area of cultivated land and the crop harvested.
 - (c) Find the common factor of 14pq & 28p²q²

SECTION C

- Q18. I purchased a hair dryer for Rs 5400 including 8 VAT. Find the price before VAT was added.
- Q19. Using identity find the product of -

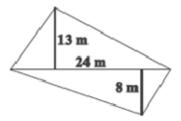
$$(4x+5)(4x+1)$$

Q20. For given solid, identify the top view, front view and side view





Q21. The diagonal of a quadrilateral shaped field is 24 m and the perpendiculars dropped on it from the remaining opposite vertices are 8 m and 13 m. Find the area of the field.



- Q22. Find the value of m for which $5^{m} \div 5^{-3} = 5^{5}$.
- Q23. If a box of sweets is divided among 24 children, they will get 5 sweets each.

 How many would each get, if the number of the children is reduced by 4?
- Q24. A machine in a soft drink factory fills 840 bottles in six hours. How many bottles will it fill in five hours?
- Q25. Divide -

(i)
$$(5x^2 - 6x) \div 3x$$
 (ii) $5(2x + 1)(3x + 5) \div (2x + 1)$

- Q26. Draw the line passing through (2, 3) and (3, 2). Find the coordinates of the points at which this line meets the x-axis and y-axis.
- Q27. Find the values of the letters in each of the following and give reasons for the steps involved

OR

If 31 z5 is a multiple of 9, where z is a digit, what is the value of z?



SECTION D

Q28. A VCR and TV were bought for Rs 8,000 each. The shopkeeper made a loss of 4% on the VCR and a profit of 8% on the TV. Find the gain or loss percent on the whole transaction.

OR

- Q29.Arif took a loan of Rs 80,000 from a bank. If the rate of interest is 10% per annum, find the difference in amounts he would be paying after 1 $\frac{1}{2}$ years if the interest is
 - (i) Compounded annually. (ii) compounded half yearly
- Q30. The internal measures of a cuboidal room are 12 m × 8 m × 4 m. Find the total cost of whitewashing all four walls of a room, if the cost of white washing is Rs 5 per m2. What will be the cost of white washing if the ceiling of the room is also whitewashed?

OR

- Q31.A closed cylindrical tank of radius 7 m and height 3 m is made from a sheet of metal. How much sheet of metal is required?
- Q32. Find the value of-(i) $(1/2)^{-2}+(1/3)^{-2}+(1/4)^{-2}$ (ii) $(3^{\circ}+4^{-1})\times 2^{2}$
- Q33.Factorise -

$$(i)a^4-b^4$$
 (ii) p^2+6p+8

Q34. Draw the graphs for the following tables of values, with suitable scales on the axes-Interest ondeposites for a year



Deposit (in Rs)	2000	3000	4000	5000
Simple Interest(in Rs)	160	240	320	400

- (i) Does the graph pass through the origin?
- (ii) Use the graph to find the interest on Rs 2500 for a year.

