AP SUPER GURU MODEL TEST PAPER - 6

MATHEMATICS (UNSOLVED)

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. CLASS - VIII

Maximum Marks: 80

NOTE

- 1. All the questions are compulsory.
- 2. In Part - A there will be Q.No. 1 to 3.
 - Question No. 1 have 16 questions of Multiple Choice of one mark each.
 - (ii) Question No. 2 have 7 questions of Fill in the Blanks of one mark each.
 - (iii) Question No. 3 have 7 questions of True/False of one mark each.
- Part B have questions from No. 4 to 7 each of two marks. 3.
- Part C have questions from No. 8 to 13 each of four marks and there is internal 4. choice in question number 8, 11 and 12.
- 5. Part - D have questions from No. 14 to 16 each of six marks and there is internal choice of all questions.

PART - A

Note: Each question is of 1-1 mark in this part:

- Choose the right option from the following questions:
 - (i) Which of the following rational number lies between 0 and 1?

(a)
$$\frac{7}{4}$$

(b)
$$\frac{2}{7}$$

(c)
$$\frac{7}{3}$$

- (ii) Which of the property of multiplication is used in $\frac{5}{4} \times 2 = 2 \times \frac{5}{4}$
 - (a) Additive

(b) Associative

(c) Commutative

- (d) None of these
- (iii) What is the value of 'x' for the equation 3x + 4 = x 6?
 - (a) 3
- (b) 4

(c) -5

- (d) 5
- (iv) If 4y and 100° are opposite angles of a parallelogram then the value of 'y' will be?
 - (a) 20°
- (b) 100°

 $(c) 40^{\circ}$

- $(d) 25^{\circ}$
- (v) Which of the following number is not a perfect square number?
 - (a) 728
- (b) 729

(c) 144

- (d) 625
- (vi) Which of the following number is subtracted from 288 in order to make it a perfect square?
 - (a) 12
- (b) 32

(c) 22

- (d) 42
- (vii) By which least number 108 is multiplied so that it become a perfect cube?
 - (a) 3
- (b) 4

(c) 2

(d) 6

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(viii)	() 0 0	of 200 Paise to Rs. 3? (b) 200: 3	(a) 3 · 200	
(ix)	What is the co-eff	ficient of x in $5x^2 - x +$	(c) 3:200 6?	(d) 2:3
(x)	(a) -1 What is the area of	(b) 1 of a square of diagonal '	(c) x d'?	(d) 5
	(a) d ²	$(b) \frac{1}{2} d^2$	(c) 2d ²	$(d) \frac{1}{2} d$
to i	(a) 13.31	ne of a cube having edg (b) 133.1 lard form of 1040352?	(c) 1.331	(d) 1331
(xii	(a) 10.40352×1 (c) 10.40352×1	07	(b) 1.040352×10^7 (d) 1.040352×10^6	
(xiii) What is the value	$e \circ (5^3)^4$?		a Sirony Filipe
	(a) 5^{12}	(b) 5 ⁷	(c) 5 ⁻¹	(d) $\frac{4}{5^3}$
	(a) $10x$	non factor of 10xy and (b) 2y	12y? (c) 2xy.	(d) 2x
	$p^{3} - p = \dots $ (a) p (p ² + 1) (c) p (p - 1) (p +	1)	(b) $(p^2-1)(p^2+1)$ (d) $p^2(p-1)$	
(xvi	What are the co-(a) (1, 1)	ordinates of a point white (b) (1, 0)	ch lies on both axis i.e. (c) $(0, 1)$	x - axis and y - axis? $(d) (0, 0)$
(1	II in the blanks. (i) Sum of angles of (ii) Probability of ge	f a triangle istting a vowel from Engl	lish alphabet is	,
-		$1\sqrt{196} = \dots$		
(v) Least slab in G.S) Area of four wall) $x^0 = \dots$	T. is =lls of a rectangular roon	n is	
(vii) Ordinate of poin ue/False.	t (7, 4) is		(True/False)
(i) (ii)	Diagonals of a r	than $x = 4$. hombus are equal. used to find frequency.		(True/False) (True/False)
(iv	Volume of a cube	e of edge 4cm is 12cm^3 and $(a-2b)$ is $(3a-3b)$)	(True/False) (True/False)
		in inverse proportion th	X	(True/False)
(V) if x and y are	III III VOISO P P	y	(True/False)

 $(vii)(a + b)^2 + (a - b)^2 = 2a^2 - 2b^2$

(True/False)

PART – B

Note: This part has questions of 2-2 mark:

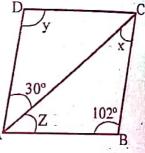
- 4. Solve the following $\frac{-11}{2} + \frac{7}{6} \frac{5}{8}$
- 5. Write $(19)^2$ in the form of sum of two consecutive numbers.
- 6. Find the cube root of 1331 by prime factorisation method.
- 7. Solve the following $\frac{3^{-5} \times 10^{-5} \times 25}{5^{-7} \times 6^{-5}}$

Note: This part has questions of 4-4 mark:

- 8. Preet is 6 years older than Abdul. Six years ago, Preet's age was four times Abdul's age. Find their present ages.
- 9. Find the value of x, y and z from the given below.

Or

Diagonal of a rhombus are 6cm and 8cm. Find the perimeter of Rhombus.



10. Subtract x + 3y - 5z + 7 from the sum of 2x - 3y + 4z - 2 and -3x + 8y + 12z - 4.

Or

Find the following (a + b) (a - b) + (b + c) (b - c) + (c + a) (c - a)

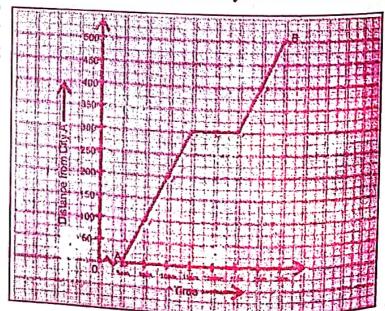
- 11. A machine in a soft drink factory fills 840 bottles in 6 hours. How many bottles will it fill in 5 hours?
- 12. Divide $(3 11x + 6x^2)$ by (-1 + 3x)

13. The given graph describes the distance travelled by a car from a city A at different times

when it was travelling from city A to ctiy B. which are 500 km apart. Study the graph and answer the following questions.



- (ii) How far did the car go in the first hour?
- (iii) Did the car stop for some duration its journey? For what time duration the car stopped?
- (iv) When the car reached at B?
- (v) What was the total distance travelled by car in first five hours?



Or

The following table shows the quantity of petrol and its cost.

Quantity of Petrol (in litres)	. 1	5	10	15	20
Cost of Petron (in Rs.)	70	350	700	1050	1400

Plot a graph to show the data.

PART - D

Note: This part has questions of 6-6 mark.

14. Construct a frequency distribution table for the data on weights (in Kg) of 20 students of a class using interval 30-35, 35-40 and so on.

40, 48, 33, 38, 31, 60, 53, 49, 36, 46, 34, 65, 55, 49, 41, 47, 44, 39, 38, 42.

Or

The number of students in a hostel speaking different languages is given below

Language	Hindi	Punjabi	English	Marathi	Tamil	Bengali	Total
No. of students	10	30	12	. 9	7	4	72

15. An article marked at Rs. 1920 is sold for Rs. 1840. Find the discount and discount percentage?

Or

A sum of Rs. 5000 is borrowed at a rate of 8% per annum for 2 years. Find the simple interest and the amount to be paid at the end of 2 years.

16. The curved surface area of a hollow cylinder is 4224 cm². It is cut along its height and formed a rectangular sheet of width 33cm. Find the perimeter of the sheet.

Or

A milk tank is in the form of a cylinder whose radius is 1.5m and length is 7m. Find the quantity of milk in litres that can be stored in the tank.

Answers of Multiple Choice Questions

- 1. (i) (b), (ii) (a), (iii) (c), (iv) (d), (v) (a), (vi) (b), (vii) (c), (viii) (d), (ix) (a), (x) (b), (xi) (c), (xii) (d), (xiii) (a), (xiv) (b), (xv) (c), (xvi) (d)
 - 2. (i) 180°, (ii) 5/26, (iii) 14, (iv) 0%, (v) 2 (l+b) h, (vi) 1, (vii) 4.
 - 3. (i) True, (ii) False, (iii) True, (iv) False, (v) True, (vi) False, (vii) False.

