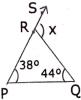
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		Stan								
Time	a: 2.	00 Hrs. MA	THS	. 10 /	P	larks: 60				
11111			RT - A	-						
I.	Cho	ose the correct answer:	KI-A			5×1=5				
•		The decimal representation of 3	0 kg a	nd 43 g is	kg.					
•		a) 30.43 b) 30.430		c) 30.043	d) 30.0					
	2)	The ratio of the area of a circle	to the	area of its ser	nicircle is	·				
		a) 2:1 b) 1:2			d) 1:4					
	3)	The degree of $6x^7 - 7x^3 + 4$ is	·		-15.4	ï				
	4)	a) 7 b) 3		C) 6	d) 4	of plane				
	.4)	Which of the following methods figures?				or plane				
		a) translation methodc) substitution method		d) transposit	ion method					
	5)	What is the sum of the element	s of ni	neth row in the	e Pascal's triar	nale?				
	٥,	a) 128 b) 254		c) 256						
II.	Fill	in the blanks:				5×1=5				
• . •		$\frac{3}{5} = \frac{3}{2}$								
	. 7)	If the circumference of a circle	is 82π,	then the value	e of 'r' is	<u> </u>				
` '	8)	Unit digit of 124×36×980 is								
	9)	An exterior angle of a triangle				ngles are				
	40)	equal. Then measure of each of								
***		In the equation y = 2x+1, if x = / True? or False?:	= 3 the	n the value of	y is	5×1=5				
ш.		ot change the								
	11)	Zeros added to the right end o that decimal number.	i decii	nar aigits ao n	or change, the	value of				
	12)	Circumference of a circle, $c = \pi$	d units	s, where 'd' is t	he diameter o	f a circle.				
		$2^3 \times 3^2 = 6^5$								
	14)	If the corresponding sides and corresponding angles of two plane figures are equal then they are called congruent figures.								
·	15)	5) The General form of the sequence 4, 16, 36, 64, is $y = 2n^2$.								
IV.	-	tch the following:		20, 00, 00,	······································	5×1=5				
		1m	- a	m+n	,					
	•	Area of the rectangular path	- a	^m ×b ^m						
	18)	Area of the circular path	,_ <u>1</u>	1 .000 km						
	19)	a ^m ×a ⁿ	- (1	_B-lb) sq.units						
	•	(a×b) ^m	-	(R ² -r ²) sq.unit	s \					
	,		RT - B							
V.	Ans	swer ANY 10 questions:	···			L0×2=20				
ă.	21)	21) Express the following decimal number in place value grid and write the place value of the underlined digit: 263. <u>2</u> 71								
		Write the following fraction as decimal: $\frac{9}{1000}$								
		23) Arrange the following in ascending order: 2.35, 2.53, 5.32, 3.52, 3.25								
	24)	4) What is the circumference of the circular disc of radius 14 cm? $\left(\text{use }\pi = \frac{22}{7}\right)$								

25) Find the area of the circle of radius 21 cm. (use π = 3.14)

- 26) If the outer radius and inner radius of the circles are respectively 9 cm and 6 cm, find the width of the circular pathway.
- 27) Express 729 in exponential form.
- 28) Find the unit digit of expanded form of 100^{12} .
- 29) Find the degree of the following expression: $12xyz-3x^3y^2z+z^8$
- 30) Can you draw a triangle with 25°, 65° and 80° as angles?
- 31) In $\triangle PQR$, find the exterior angle $\angle SRQ$.

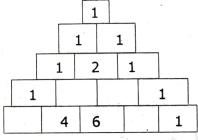


32) Write the relationship between x and y in general form for the following , table.

X	-2	-1	0	1	2	-
у	6	3	0	-3	-6	-

33) Complete the Pascal's triangle.

SIVAKUMAR, M,

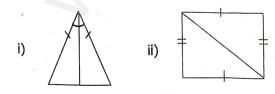


soi Ram matric HSS Vallam-622809, Tenkasi Distoich.

PART - C

VI. Answer ANY FIVE questions:

- 5×3=15
- 34) Convert the following into simplest fractions: (i) 0.04 (ii) 3.46 (iii) 0.862
- 35) Express the following in kilometers using decimals: (i) 256m (ii) 4567m
- 36) The diameter of the bullock cart wheel is 1.4m. Find the distance covered by it in 150 rotations?
- 37) The radius of a circular flower garden is 21m. A circular path of 14m wide is laid around the garden. Find the area of the circular path.
- 38) Simplify using quotient rule of exponents: (i) $\frac{10^8}{10^6}$ (ii) $\frac{2^8 \times 3^5 \times 5^4}{3^3 \times 5^3 \times 2^4}$
- 39) If a = 3 and b = 2, then find the value of the following: (i) $a^b + b^a$ (ii) $(a+b)^b$
- 40) In the following figures, state whether the two triangles are congruent or not. Justify your answer.



41) Can row sum of elements in a Pascal's triangle form a pattern? Explain. PART - D

VII. Answerthe following questions:

- 5×1=5 42) Draw a triangle XYZ given that XY = 6.4 cm, ZY = 7.7 cm and XZ = 5 cm.
- (OR) 43) Draw a triangle LMN given that LM = 5.5 cm, \angle M = 70° and \angle L = 50°.