

Model Test

41. The value of $\frac{1-tan^27.5}{1+tan^27.5} =$

 $\frac{\sqrt{3}+1}{2\sqrt{2}}$

 $\frac{1}{2\sqrt{2}}$

 $\bigcirc \qquad \frac{\sqrt{5}-1}{4}$

42. If $(1+x)^n=c_0+c_1x+c_2x^2+\ldots+c_nx^n$ then the value of ${}^nc_0+4.{}^nc_1+4^2.{}^nc_2+\ldots+4^n.{}^nc_n=$ (1 marks)

 \bigcirc 2"

 \bigcirc 3°

 $\bigcap A^{\eta}$

- \bigcirc 5ⁿ
- 43. Number of ways in which 4 letters can be posted in 3 boxes is (1 marks)

(Tharks)

 \bigcirc 4³

3 × 4

3! 4!

 \bigcirc 3⁴

44. One end of a diameter of the circle $x^2+y^2-6x+4y+1=0$ is (2, 1). Then the co-ordinates of the other end is (1 marks)

(4, 2)

(3, -6)

(-2, 5)

_		
	/ /	_/
)	(4	-5)
	(7,	Ο,

45. The area included between the parabolas $y^2=4x \& x^2=4y$ is (1 marks)







46. The radius of a circle is increasing at the rate 0.7 cm/sec. The rate of increase of its circumference is (1 marks)



2.2 cm/sec

4.4 cm/sec

 \bigcirc $\frac{7}{2}cm/sec$

47. The value of $cot^{-1}(\frac{ab+1}{a-b})+cot^{-1}(\frac{bc+1}{b-c})+cot^{-1}(\frac{ca+1}{c-a})=$ (1 marks)

$$\bigcirc \quad \cot^{-1}a - \cot^{-1}b - \cot^{-1}c$$

 $\bigcirc \hspace{0.2in} 2(tan^{-1}a\!-tan^{-1}b)$

O 1

 \bigcirc \bigcirc

48. The ratio in which the join of (1, -2, 3) and (4, 2, -1) is divided by XY-plane is (1 marks)

2:-3

3:2

0 4:1

,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, and control in general ingestion	_
	3:1	
49.	The word 'stopped' has sound in the final position.	
	O Idl	
	O Id	
	○ t	
	lpel	
50.	The word 'selectee' has its primary stress on syllable.	
	$\bigcirc \ \ 3^{rd}$	\\\\\\\\\
	$\bigcirc 2^{nd}$	\\\-\-\-\-\-\-\-\-\-\-\-\-\-\-\
	$\bigcirc 4^{th}$	\\\\\\\\
	\bigcirc 1 st	
	Next	

2022 \circledcirc **engineeringdote**, a product of Studydote Pvt. Ltd - Online study portal