28th June, 2022 Shift-1

EE24BTECH11063 - Y.Harsha Vardhan Reddy

SINGLE CORRECT

(0, 1, 2), respectively, is

a) $\frac{\pi}{3}$

b) $\frac{\pi}{4}$

Then, which of the following is NOT true?

a) If S₂ is True, then S₁ is True
b) If S₂ is False, then S₁ is False
c) If S₂ is False, then S₁ is True
d) If S₁ is False, then S₂ is False

1) The acute angle between the planes P_1 and P_2 , when P_1 and P_2 are the planes passing through the intersection of the planes 5x + 8y + 13z - 29 = 0 and 8x - 7y + z - 20 = 0 and the points (2, 1, 3) and

c) $\frac{\pi}{6}$ d) $\frac{\pi}{12}$

2) Let the plane				
		$P: \overrightarrow{r} \cdot \overrightarrow{a} = d$		
		planes $\vec{r} \cdot (\hat{i} + 3\hat{j} - \hat{k}) = 6$), then the value of $\frac{ 13\vec{a} ^2}{d^2}$		= 7. If the
a) 90	b) 93	c) 95	d) 97	
		cted 3-digit number at lea	22	;
a) $\frac{19}{36}$	b) $\frac{15}{36}$	c) $\frac{13}{36}$	d) $\frac{23}{36}$	
and Q , which a	-	$60m$ apart from each others. Let $\frac{\pi}{8}$ and θ be the and θ , then $\tan^2 \theta$ is equal to		-
a) $\frac{3-2\sqrt{2}}{2}$	b) $\frac{3+\sqrt{2}}{2}$	c) $\frac{3-2\sqrt{2}}{4}$	d) $\frac{3-\sqrt{2}}{4}$	
5) Let p, q, r be the	ree logical statements. C	Consider the compound sta	atements	
	S_1 : ((\cdot	$(p) \lor q) \lor ((p) \lor r)$ ar	nd	
		$S_2: p \rightarrow (q \vee$	r)	