Vidyarohi Learning

Set 1 Code: 65/1/3			
Section	Question Number	Answer	
A	1	C, It will have both maximum and minimum values	
	2	A, k	
	3	B, a+1-e/2	
	4	A, -1/log2	
	5	D	
	6	B, -3	
	7	A, 7/8	
	8	D, tanx-secy	
	9	С, п/3	
	10	C, $f(x)$ is continuous but not differentiable, at $x = 0$ and $x = 1$	
	11	D, May or may not be consistent if A = 0 and (adj A) B = 0	
	12	C, 4	
	13	C, Order 2, degree 1	
	14	С	
	15	C, Z is maximum at (40, 15), minimum at (15, 20)	
	16	A, Only AB	
	17	A	
	18	D	
	19	D, Assertion (A) is false, but Reason (R) is true	
	20	D, Assertion (A) is false, but Reason (R) is true	
В	21	$\frac{1}{2}(\sqrt{62})$ sq. units	
	22	$a \in [1, \infty)$	
	23	$\theta = \cos^{-1}\left(\sqrt{\frac{3}{7}}\right)$ OR -18i+6j+9k	
	24	No solution for x	

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	25	(ln2)2 ^{cos² x} OR -x/y
С	26	Maximum at (30/13, 6/13), maximu value 294/13
	27	-1/6loglx-1I-1/3loglx+2I+1/2loglx-3I+c OR 55/2
	28	Constant
	29	9 sq units
	30	$\frac{8}{\sqrt{29}}$ OR 2:3
	31	p=1/7 and mean= 3 OR 1/3
D	32	Sports club= 90, Drama club= 2533 and Music club= 65
	33	$a\left[\left(\tan^{1}\sqrt{\frac{x}{a}}\right)\frac{x}{a}-\sqrt{\frac{x}{a}}+\tan^{-1}\sqrt{\frac{x}{a}}\right]+C$
	34	$ \begin{array}{c} 2\sqrt{2} \\ \text{OR} a^2 \end{array} $
	35	Image is (1, 0, 7) and eq of line $\frac{x-1}{0} = \frac{y-6}{6} = \frac{z-3}{-4}$ OR P=(-4, 1, -3) and $\frac{x-2}{6} = \frac{y-4}{3} = \frac{z+1}{2}$
E	36	(i) R4, (ii) no relation, (iii) R1 OR (1,1), (2,2), (3,3), (2,1), (3,1), (2,3)
	37	(i) 0.018, (ii) 7/18
	38	(i) 2x+3y=300, (ii) x(100-2/3x), (iii) 3750 sq units OR 3750 sq units
4	194	