KOLHAPUR INSTITUTE OF TECHNOLOGY'S COLLEGE OF ENGINEERING (AUTONOMOUS),KOLHAPUR

First Year BTech MID SEMESTER EXAMINATION Engineering Mathematics 1 (123)

Day and Date :	PRN:
Time:	Max Marks:30

Instructions:

IMP: Verify that you have received question paper with correct course, code, branch, etc

- i) All Questions are Compulsory
- ii)Figure to right indicate full marks
- iii) Assume suitable data wherever necessary

$\mathbf{Q}\mathbf{No}$	Question	${f Marks}$	\mathbf{CO}	BL
&1 10	Q GCD 01011	TVICTIES	\sim	

1.	Attempt 2 out of 3	8		
1.A	find the value of $y = x^2$ where x=4 A)1 B)4 C)9 D)16	4	CO2	3
1.B	$\frac{1-\cos a}{\sin a} \text{ equals tp:}$ $A) \frac{\sin a}{1-\cos a}$ $B) \frac{\sin a}{1+\cos a}$ $C) \frac{\cos a}{1-\cos a}$ $D) \frac{\cos a}{1+\cos a}$	4	CO1	2
1.C	What is the Volume of Cylinder which has radius=4cm and height and 6 cm $.\pi$ =3.14. A)25 B)32 C)25 D)30	4	CO5	4

2.	Attempt 2 out of 2	8		
2.A	Evaluate the following $\int_2^5 \sqrt{\frac{5x}{2}} dx$	4	СОЗ	3
2.B	Evaluate $\sum_{3}^{5} (x + x^4)$	4	CO1	1
3.	Attempt 1 out of 2	8		
3.A	Evaluate $\int \sqrt{5 + 3x} dx$ Figure 3.A	4	CO3	1
3.B	Difference between area of 2 circles	3	CO5	1