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

QNo Question Marks CO BL

1.	Attempt 2 out of 4	10		
1.A	find the value of $y = x^2$ where x=4 A)1 B)4 C)9 D)16	3	CO2	3
1.B	find out the area of triangle with base =3cm and height =4cm. A)6 B)12 C)5 D)4	3	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	3	CO5	4
1.D	$ \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} $	3	CO1	2
2.	Attempt 2 out of 2	10		
2.A	Derive π as a ratio of circumfrence and diameter.	3	CO2	4
2.B	1 1 1 Rank of the matrix 1 1 1 1 1 1	3	CO1	1
3.	Attempt 1 out of 2	10		
3.A	Evaluate the following $\int_2^5 \sqrt{\frac{5x}{2}} dx$	3	CO3	3
3.B	Differentiate $x^3 dx$	3	CO3	1