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 3	6		
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	The Square of Hypotenus is the sum of squares of 2 adjacent sides. This law is termed as. A)Euler's law B)Pythogaros Theorem C)Newton's Law D)Aryabhatta's Law	5	CO1	1
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 1 D)30	4	CO5	4

2.	Attempt 2 out of 3	10		
2.A	1 1 1 Rank of the matrix 1 1 1 1 1 1	5	CO1	1
2.B	find the sum $\frac{53}{22} + \frac{11}{22}$	5	CO1	1
2.C	Evaluate $\sum_{3}^{5} (x + x^4)$	5	CO1	1

3.	Attempt 2 out of 3	10		
3.A	Differentiate $x^3 dx$	5	CO3	1
3.B	Derive the following equation $y = x^4$	4	CO2	1
3.C	Difference between area of 2 circles $ \phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	4	CO5	1