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 1 out of 2**	**1**		
1.A	find out the area of triangle with base =3cm and height =4cm. A)6 B)12 C)5 D)4	3	CO1	2
1.B	find the value of $y = x^2$ where x=4 A)1 B)4 C)9 D)16	3	CO2	3
2.	**Attempt 1 out of 2**	**1**		
2.A	find the sum $\frac{53}{22} + \frac{11}{22}$	3	CO1	1
2.B	Rank of the matrix $\begin{matrix} 1 & 1 & 1 \\ 1 & 1 & 1 \\ 1 & 1 & 1 \end{matrix}$	3	CO1	1

3.	Attempt 1 out of 2	1		
3.A	Evaluate the following $\int_2^5 \sqrt{\frac{5x}{2}}\ dx$	3	CO3	3
3.B	Derive π as a ratio of circumfrence and diameter.	3	CO2	4