

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

**First Year BTech
IN SEMESTER EXAMINATION
Engineering Mathematics 1 (123)**

Day and Date :

PRN:

Time :

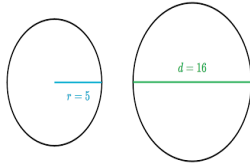
Max Marks:30

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	10		
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	$\frac{1-\cos a}{\sin a}$ equals to: 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	find out the area of triangle with base =3cm and height =4cm. A)6 B)12 C)5 D)4	4	CO1	2

2.	Attempt 2 out of 2	10		
2.A	Difference between area of 2 circles  Figure 2.A	4	CO5	1
2.B	Evaluate $\sum_3^5 (x + x^4)$	4	CO1	1
3.	Attempt 1 out of 2	10		
3.A	Evaluate the following $\int y^3 dy$	4	CO2	3
3.B	find the sum $\frac{53}{22} + \frac{11}{22}$	4	CO1	1