

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

**FIRST YEAR B.Tech
MID SEMESTER EXAMINATION
Mathematics2 (BSM2)**

Day and Date :

PRN:

Time :

Max Marks:30

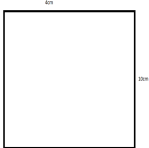
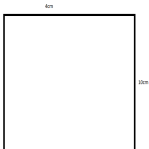
Instructions:

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
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1.	Attempt 2 out of 3	6		
1.A	What is the value of 3! A)6 B)9 C)4 D)3	4	CO1	1
1.B	The probability of an event happening is 0.3.What is the probability of not happening A)0,5 B)0.3 C)0.2 D)0.7	4	CO1	1
1.C	Area of circle can be defined as. where r is radius A) $2 \times 3.14 \times r$ B) $3.14 \times r \times r$ C) $3.14 \times r \times r \times 3$ D) $4 \times 3.14 \times r \times r$	4	CO1	5

2.	Attempt 2 out of 2	12		
2.A	<p>Find the area of rectangle from the below figure</p>  <p>Figure 2.A</p>	4	CO1	5
2.B	<p>Derive that internal sum of angles in an triangle get a sum of 180 degrees</p>  <p>Figure 2.B</p>	4	CO1	4

3.	Attempt 1 out of 2	12		
3.A	Evaluate $\int x^3 dx$	4	CO2	3
3.B	Evaluate $\frac{x^{\frac{2}{5}}}{dx}$	4	CO1	1