



Vivekananda College of Engineering & Technology

[Sponsored by Vivekananda Vidyavardhaka Sangha, Puttur ®]

Affiliated to Visvesvaraya Technological University

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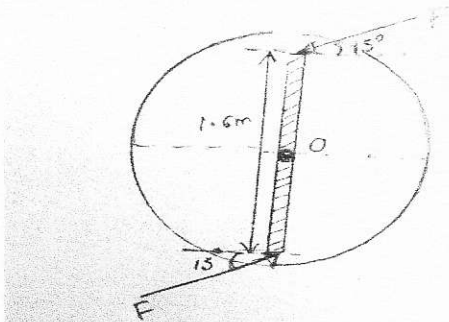
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17/08/2015

INTERNAL ASSESSMENT TEST - 1

Dept: CS/ ME/ IS/ EC/ CV	Sem / Div:1 A, B, C & D	Sub: Elements of civil Engineering and Mechanics	S Code: 15CIV13
Date: 21/08/2015	Time: 9:30-11:00AM	Max Marks: 40	Elective:N

Note: Answer any 2 full questions.

QN	Questions	Bloom's Level	Ma rks
1	a Illustrate types of bridges with neat sketch.	L2	8
	b Describe the basic Idealization in mechanics	L2	7
	c Demonstrate and explain transmissibility law of forces with neat sketches.	L3	5
2	a Explain the concept of Shoulders and Kerbs	L2	5
	b Give the difference between Earthen Dam and Gravity Dam with neat sketches.	L3	7
	c The top view of a revolving entrance door is as shown in figure. Two persons approach simultaneously and exert forces of equal magnitude 'F' making an angle 15° . If resulting moment about the door pivot axis at O is 20N-m. Determine the magnitude of forces.(Length of door =1.6m)	L4	4
			
	d Explain force characteristics with a neat sketch.	L2	4
3	a Explain different types of roads.	L2	6
	b Explain briefly the scope of civil engineering in - 1. Structural engineering. 2. Geotechnical engineering.	L2	6
	c Explain the role of civil Engineer in infrastructural development.	L2	4
	d Demonstrate couple with sketch and list out the characteristics of couple.	L3	4

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