

Roll No	
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**Tatyasaheb Kore Institute of Engineering & Technology, Warananagar  
(An Autonomous Institute)**

**F.Y. B. Tech (Sem-II), In Semester Examination –II, October 2023**

**ENGINEERING MECHANICS**

Day and Date: Friday, 27 Oct. 2023

Marks: 30

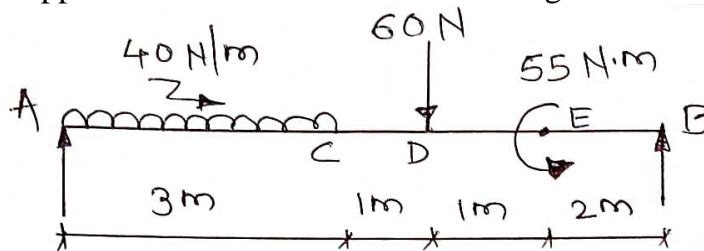
Time : 09:15 am to 10:15 am

**Instructions: i) Use of non programmable calculator is allowed.  
ii) Figures to the right indicate full marks.**

**Q.1 Attempt any 3 from the following questions.**

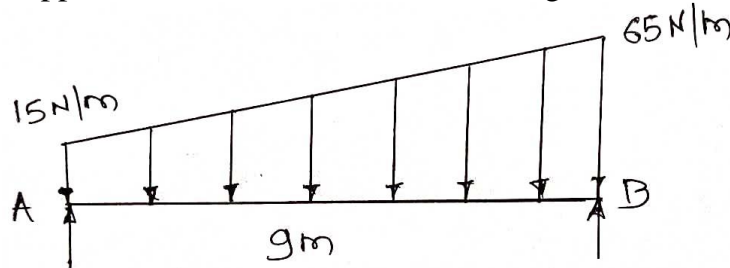
- a) Explain various types of supports of beam.
- b) Explain various types of loads acting on beam.
- c) Find support reactions for beam shown in figure.

Unit No	CO	
3	3	5
3	3	5
3	3	5



- d) Find support reactions for beam shown in figure

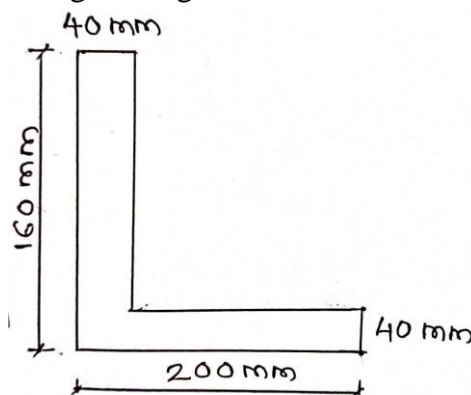
3	3	5
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**Q.2 Attempt any 3 from the following questions.**

- a) Write short note on centroid and center of gravity.
- b) Locate centroid of any 5 standard shapes with neat sketch.
- c) Locate centroid of given figure.

4	4	5
4	4	5
4	4	5

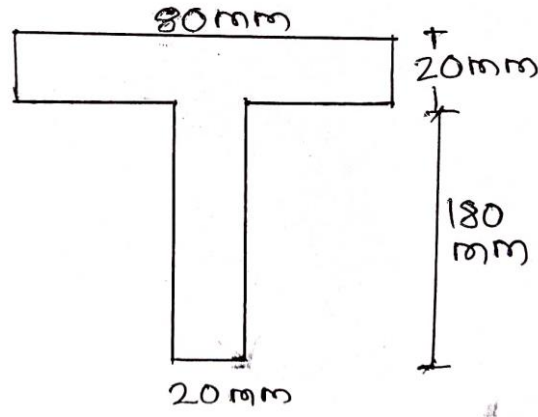


4	4	5
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d) Locate centroid of given figure.



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