

## SCHEME - E

### Sample Test Paper – I

Course Name : Civil, Mechanical and Electrical Engineering group

Course Code : CE/CS/CR/ME/PG/PT/AE/MH/FE/EE/EP

Semester : Second

Subject Title : Engineering Mechanics

Max Marks : 25

# 12015

Time: 1 Hour

#### Instructions:

- 1] All questions are compulsory.
- 2] Figures to the right indicate full marks.
- 3] Use of non-programmable calculator is permissible.

#### Q.1 Attempt THREE of the following:

(3 x 3 = 9)

- a) What is the meaning of Vector quantity? Give two example.
- b) State three characteristics of the couple.
- c) Define Equilibrant for coplanar concurrent force system.
- d) State Lami's theorem.
- e) State relationship between resultant & equilibrant.

#### Q.2 Attempt TWO of the following:

(4 x 2 = 8)

- a) Two forces of magnitudes 30 N and 50 N are acting at a point making an angle of  $40^\circ$  between them. Calculate the magnitude and the position of resultant with respect to 30 N force.
- b) Calculate the moment at a point 'A' for the plate as shown in fig.-1.

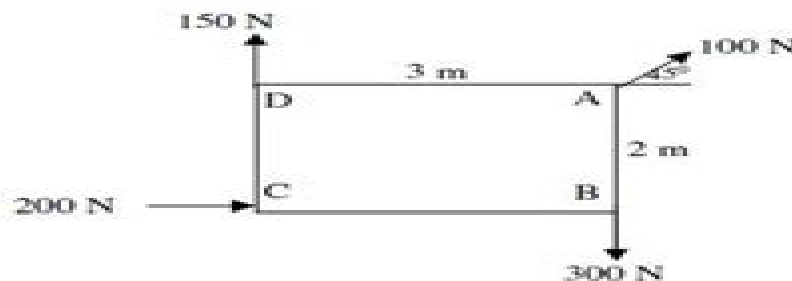


Fig.- 1  
[Q no. 2 (b)]

# Engineering Mechanics Sample Question Paper Msbte

**J. L. Meriam, L. G. Kraige**



## **Engineering Mechanics Sample Question Paper Msbte:**

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CLASS TESTS QUIZ COMPETITIONS AND SIMILAR ASSESSMENTS WITH ITS EXTENSIVE COLLECTION OF MCQS THIS BOOK EMPOWERS YOU TO ASSESS YOUR GRASP OF THE SUBJECT MATTER AND YOUR PROFICIENCY LEVEL BY ENGAGING WITH THESE MULTIPLE CHOICE QUESTIONS YOU CAN IMPROVE YOUR KNOWLEDGE OF THE SUBJECT IDENTIFY AREAS FOR IMPROVEMENT AND LAY A SOLID FOUNDATION DIVE INTO THE ENGINEERING MECHANICS MCQ TO EXPAND YOUR ENGINEERING MECHANICS KNOWLEDGE AND EXCEL IN QUIZ COMPETITIONS ACADEMIC STUDIES OR PROFESSIONAL ENDEAVORS THE ANSWERS TO THE QUESTIONS ARE PROVIDED AT THE END OF EACH PAGE MAKING IT EASY FOR PARTICIPANTS TO VERIFY THEIR ANSWERS AND PREPARE EFFECTIVELY **Mechanical**

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