# 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.

Use of non-programmable calculator is permissible.

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

 $(3 \times 3 = 9)$ 

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

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

 $(4 \times 2 = 8)$ 

- a) Two forces of magnitudes 30 N and 50 N are acting at a point making an angle of 40<sup>0</sup> 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.

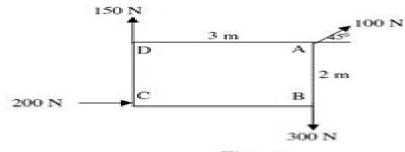


Fig.- 1 [Q no. 2 (b)]

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