

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° 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.

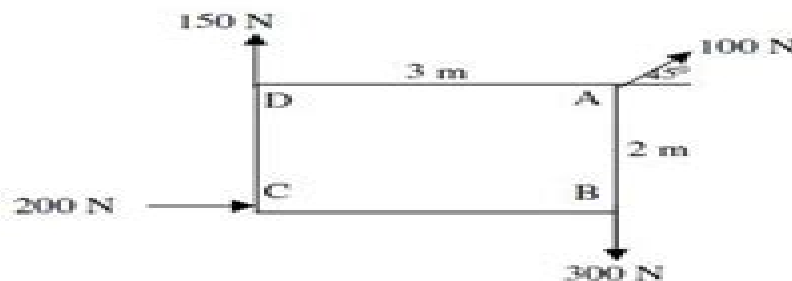


Fig.- 1
[Q no. 2 (b)]

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