

Question Paper Code : 31556

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2013.

Second Semester

Civil Engineering

ME 2151/ME 25/10122 ME 205/080120002/CE 1151 — ENGINEERING

MECHANICS

(Common to Aeronautical, Automobile, Marine, Mechanical, Production, Chemical, Petroleum Engineering, Biotechnology, Polymer, Textile, Textile (Fashion), Plastic Technology, Materials Science and Engineering, Manufacturing Engineering, Mechatronics Engineering, Industrial Engineering, Industrial Engineering and Management, Environmental Engineering, Geoinformatics, Mechanical and Automation Engineering, Petrochemical Engineering, Chemical and Electrochemical Engineering, Petrochemical Technology, Pharmaceutical Technology, Textile Chemistry and Mechanical Engineering (Sandwich))

(Regulation 2008/2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Explain the principle of transmissibility.
2. State the necessary and sufficient conditions for equilibrium of a particle in two dimensions.
3. State Varignon's theorem of moments.
4. What is meant by a force-couple system?
5. Define centroid and centre of gravity of an area.
6. What do you mean by polar moment of inertia?
7. Write the work-energy equation of particles.
8. State impulse-momentum principle.
9. Give the causes of rolling resistance.
10. What is general plane motion?

PART B — (5 × 16 = 80 marks)

11. (a) Determine the magnitude and direction of force $\vec{F}$ shown in Fig. 1 so that particle 'A' is in equilibrium.

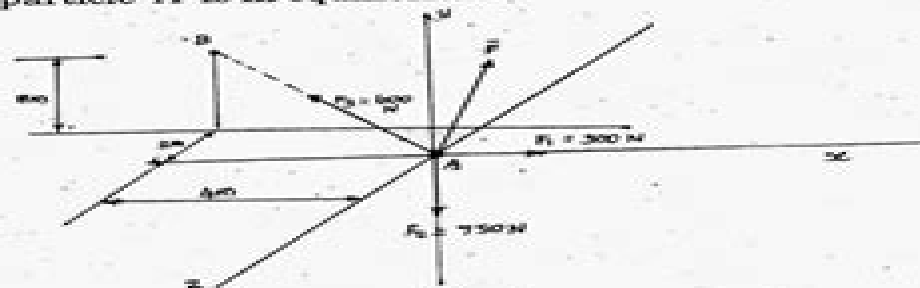


Fig. 1
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