

D 104

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2003.

First Semester

GE 131 — ENGINEERING MECHANICS

(Common to All Branches except Marine Engineering)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. A man has a mass of 72 kg is standing on a board inclined 20° with the horizontal. Find the component of man's weight.
 - (a) Perpendicular to the plane of the board
 - (b) Parallel to the plane of the board.
2. A force is represented by a vector form $P = (10\hat{i} - 8\hat{j} + 14\hat{k})$ N. Determine the projection of this force on a line which originates from (2, -5, 3) and passes through point (5, 2, -4).
3. Three couples +16 N.m, -45 N.m and +120 N.m are acting in the xy, yz and xz planes respectively. Determine the magnitude of the resultant vector of these three couples.
4. Two wires are attached to a bolt in a foundation as shown in Fig. Q. 4. Determine the pull exerted by the bolt on the foundation.

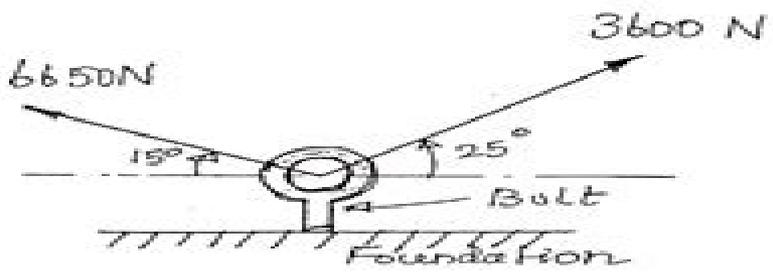


Fig. Q. 4.

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