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I—Sem/COMMON/2014(W)  
(New)

ENGINEERING MECHANICS

(Code – BET-103)

Full Marks : 70

Time : 3 hours

Answer any five questions

*Figures in the right-hand margin indicate marks*

Use of calculator is allowed

1. (a) Define triangle law of forces. 2
- (b) Two forces one of which is double the other, has resultant of 260 N. If the direction of the larger force is reversed and the other remain unaltered, the resultant reduces to 180 N. Determine the magnitude of the forces and the angle between them. 5
- (c) The forces 30N, 45N, 60N, 20N and 70N are acting at one of the angular point of a

( Turn Over )