Printed Pages: 4

ME - 202

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PAPER ID: 4035	Roll No.						

B. Tech.

(SEM. II) EXAMINATION, 2006-07

ENGINEERING MECHANICS

Time: 2 Hours]

[Total Marks: 50

- Note: (i) Attempt all questions.
 - (ii) Assume missing data suitably, if any.
- 1 Attempt any four of the following :

 $3.5 \times 4 = 14$

- (a) Explain the law of transmissibility of forces.
- (b) A particle is acted by following forces.
 - (1) 200 N inclined 30° with east towards north
 - (2) 250 N towards the north
 - (3) 300 N towards the north west
 - (4) 350 N inclined at 40° with west towards south

Find the resultant of all forces and its direction.

(c) Four forces equal to P, 2P, 3P and 4P are acting along the four sides of a square ABCD as shown in figure. Find the magnitude, direction and position of resultant forces.

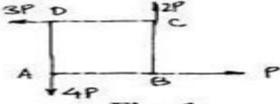


Fig. 1

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