



(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 4035

Roll No.

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B. Tech.

(SEM. II) EXAMINATION, 2006-07

ENGINEERING MECHANICS

Time : 2 Hours]

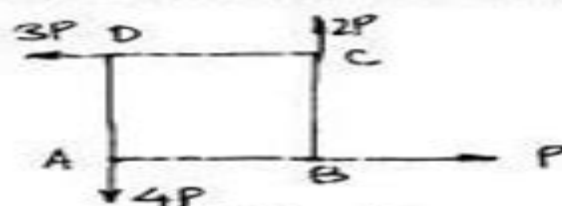
[Total Marks : 50

- Note :**
- (i) Attempt **all** questions.
 - (ii) Assume missing data suitably, if any.

I Attempt any **four** of the following : **3.5×4=14**

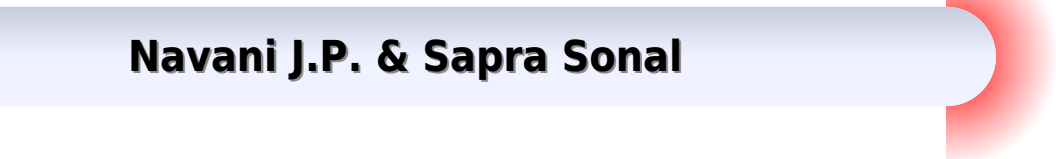
- (a) Explain the law of transmissibility of forces.
- (b) A particle is acted by following forces.
 - (1) 200 N inclined 30° with east towards north
 - (2) 250 N towards the north
 - (3) 300 N towards the north west
 - (4) 350 N inclined at 40° with west towards south

- (c) 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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Navani J.P. & Sapra Sonal



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Engineering Physics - I (U.P. Technical University, Lucknow) Dr. A.K. Katiyar, Narinder Kumar, 2010 Competition Science Vision, 2004-11 Competition Science Vision monthly magazine is published by Pratiyogita Darpan Group in India and is one of the best Science monthly magazines available for medical entrance examination students in India Well qualified professionals of Physics Chemistry Zoology and Botany make contributions to this magazine and craft it with focus on providing complete and to the point study material for aspiring candidates The magazine covers General Knowledge Science and Technology news Interviews of toppers of examinations study material of Physics Chemistry Zoology and Botany with model papers reasoning test questions facts quiz contest general awareness and mental ability test in every monthly issue

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