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so many fake sites. this is the first one which worked! Many thanks

Total No. of Questions : 12] [Total No. of Printed Pages : 8
[3761]-18
F. E. Examination - 2010
ENGINEERING MECHANICS
(2003 Course)

Time : 3 Hours] [Max. Marks : 100

Instructions :

- (1) Answer any three questions from each section.
- (2) Answers to the two sections should be written in separate books.
- (3) Blank figures to the right indicate full marks.
- (4) Neat diagrams must be drawn wherever necessary.
- (5) Final answers will be valued as a whole.
- (6) Use of electronic pocket calculator is allowed.
- (7) Assume suitable data, if necessary.

SECTION I

Q.1) (A) Five forces are acting at a point 'O'. Find values of forces P_1 and P_2 required to keep point 'O' in equilibrium. Refer Fig.1. [09]

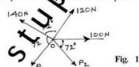


Fig. 1

(B) A person whose mass is 70 kg, represented by 'M', holds a uniform rope as shown in Fig. 2. The pulley is assumed frictionless. The ropes at 'A' and two ropes at 'B'. What is the tension in the rope at points A and B? [08]

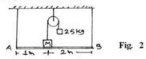


Fig. 2

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P.T.O.

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2nd Semester Engineering Mechanics