

09/09/1.30 PM

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2026

B.Tech-III Semester (CE)

COURSE CODE (CREDITS): 25B11CE311(3)

MAX. MARKS: 15

COURSE NAME: ENGINEERING MECHANICS

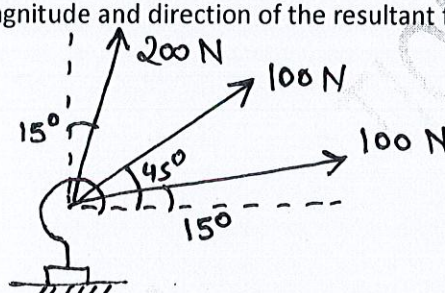
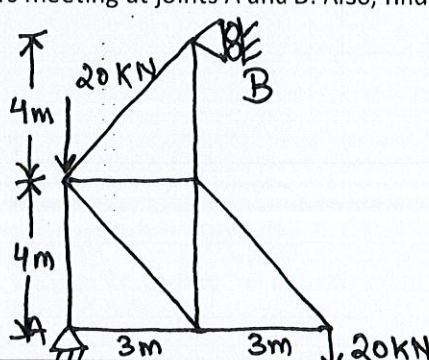
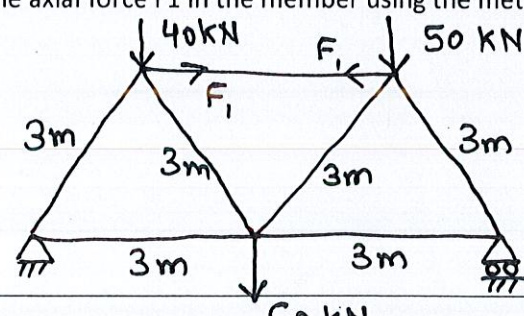
COURSE INSTRUCTOR: Dr. Ashok Kumar Gupta

MAX. TIME: 1 Hour

Note: (a) All questions are compulsory.

(b) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems

(c) Use of calculator is allowed

Q.No	Question	CO	Marks
Q1	A screw, as shown in the figure below, is subjected to three forces. Determine the magnitude and direction of the resultant force. 	1,2	5
Q2	Find the axial forces in the members meeting at joints A and B. Also, find the reactions at the two supports. 	2,3	5
Q3	Find the axial force F_1 in the member using the method of sections. 	2,3	5

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