

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2024

M.Tech-1st Semester (SE)

COURSE CODE (CREDITS):11M1WCE111(3)

MAX. MARKS: 15

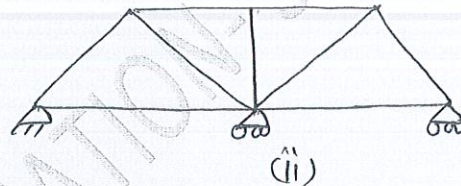
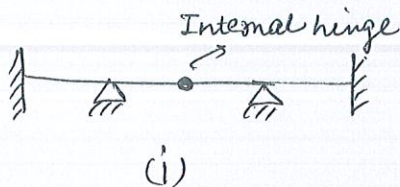
COURSE NAME: Advanced Structural Analysis

COURSE INSTRUCTORS: Mr. Chandra Pal Gautam

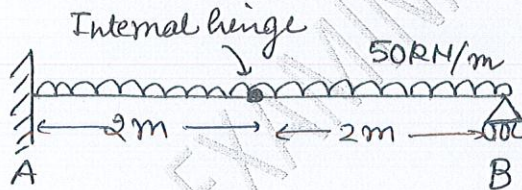
MAX. TIME: 1 Hour

Note: (a) All questions are compulsory. (b) Marks are indicated against each question in square brackets. (c) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems

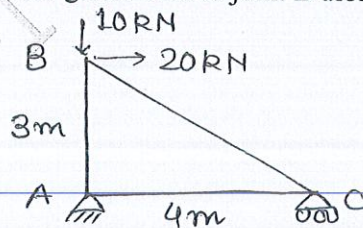
Q.1 Find the static indeterminacy of the following structures. [2]



Q.2 Draw shear force, bending moment and deflection pattern of the given beam. [4]



Q.3 Find the displacement of the given truss at joint B along x axis by using unit load method. [4]



Q.4 Find the deflection of joint C along x axis for the given frame. [5]

