Chandrapal Gautam

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- Feb-2020

B.Tech. VIth Semester

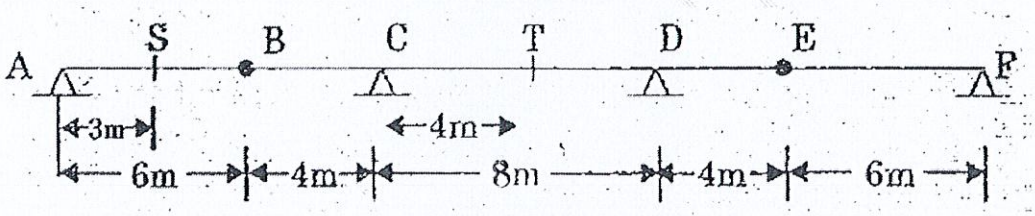
COURSE CODE: 10B11CE615 MAX. MARKS: 15

COURSE NAME: Advanced Structural Analysis

COURSE CREDITS: 04 MAX. TIME: 1Hour

Note: *All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.*

Q.1. Draw the ILD of beam shown below for support reaction at A and C, shear force and bending moment at S and T, by using Muller Breaslau Principle. **(5)**



Q.2 5 point loads of magnitude 120kN, 80kN, 250kN, 460kN and 230kN respectively, are moving on a simply supported beam of 24m. Distance between any two consecutive load is 2m. Find absolute shear force, absolute moment on the beam. Also find the maximum moment at a section 10m from left support. **(5)**

Q.3. For the given truss draw ILD for member BF, HD and BC. **(5)**