JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- Feb - 2018

B.Tech. IV Semester

COURSE CODE: 10B11CE413   MAX. MARKS:15
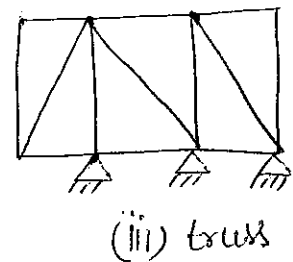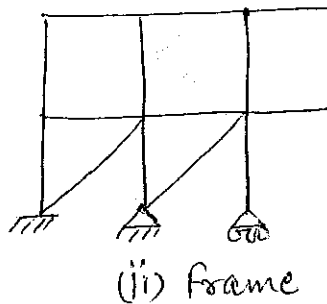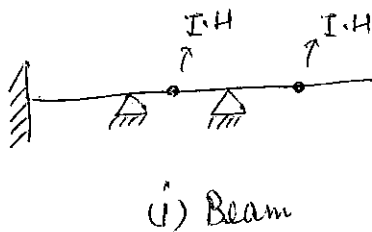
COURSE NAME: Structure Analysis

COURSE CREDITS: 04   MAX. TIME: 1 Hrs

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means. Assume any data if required

---

Q.1. Differentiate between determinate and indeterminate structure and mention their advantages & disadvantages.   **(3)**

Q.2. Find the static & kinematic indeterminacy of the following structures.   **(6)**

(i) Beam   (ii) Frame   (iii) truss

Q.3. Solve the given beam by using force method and draw the bending moment diagram & deflection pattern of the beam.   **(6)**