

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2015

B.Tech. Vth Semester

COURSE CODE: 10B11CE515

MAX. MARKS: 15

COURSE NAME: Construction Technology & Management

COURSE CREDITS: 4

MAX. TIME: 1 HR

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

1. Classify the construction equipments under all the 3 criterions. State the factors behind the selection of Earth-Moving construction equipments. Name the types of earth compacting equipments. 3
[2+1+1=4]
2. With a neat flowchart discuss each stages of "Construction Project Life Cycle". Also explain the objectives & functions of Construction Management. [2+1+1=4]
3. Discuss the difference between
 - a. General Conditions of Contract & Special Conditions of Contract
 - b. BOT contract & Turnkey Contract
 - c. Traditional Design-Bid-Build & Designed or fast tracked build. [1+1+1=3]
4. Draw a neat Network for the following Project:
 - a. Initial Node A → B
 - b. J is a successor event of F
 - c. C & D are successor event of B
 - d. D is the predecessor event of G
 - e. E & F occur after event C
 - f. E precedes F
 - g. C restrains the occurrence of G and G precedes H
 - h. H precedes J
 - i. F restrains the occurrence of H
 - j. Final Node K succeeds event J

Also apply Fulkerson rule by renaming Event from (A to K) to (1 to 11). [3+1=4]