

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -3 EXAMINATION-2022

B.Tech-III Semester (Civil)

COURSE CODE (CREDITS): 18B11CE313 (3)

MAX. MARKS: 35

COURSE NAME: BUILDING MATERIALS & CONSTRUCTION

COURSE INSTRUCTORS: AKASH BHARDWAJ

MAX. TIME: 2 Hours

Note: All questions are compulsory. Marks are indicated against each question in square brackets.

- Q1. (a) Explain the factors on which removal of formwork depends. [2 marks, CO 4]
(b) Write all the constituents of paint. Explain process of white washing. [3 marks, CO 4]
- Q2. (a) What methods/types are adopted for removing fire? Explain them. [2 marks, CO 4]
(b) Write ingredients of cement explaining property they impart to cement. Draw the flow chart showing processes involved manufacturing of cement. [3 marks, CO 1]
- Q3. (a) Write characteristics of good timber. Explain the various types of plywood. [3 marks, CO 1]
(b) Explain the various methods used for mixing of mortars in construction. [2 marks, CO 2]
- Q4. (a) Draw plan of bifurcated stair and open newel stair. [3 marks, CO 3]
(b) Define Raker and Putlogs used in scaffolding. [2 marks, CO 4]
- Q5. (a) Draw Rowlock orientation of brick and king closer for the brick. [2 marks, CO 2]
(b) Write notes on reinforced brick masonry and block masonry. [3 marks, CO 2]
- Q6. (a) Define shot concrete. Explain Auger boring. [2 marks, CO 1]
(b) Write short notes on prospect and grouping planning principle. What will be number of riser and tread for a 6m floor height and 30 cm height of riser. [3 marks, CO 3]
- Q7. (a) Draw the door shutter showing its various components. [2 marks, CO 3]
(b) Explain quarrying without blasting. Draw sectional view of frictional pile. [3 marks, CO 2]
