

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATION- APR- 2018

B.Tech II Semester

COURSE CODE: 11B11CE211

MAX. MARKS: 25

COURSE NAME: BUILDING MATERIALS AND CONSTRUCTION

COURSE CREDITS: 4

MAX. TIME: 1.5 Hr

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

Q1. Give reasons for the followings [CO1,CO2] (0.5×8=4)

- a) The slaked lime should always be used as fresh as possible.
- b) The kankar in nodular form is considered as superior materials for manufacturing of hydraulic lime.
- c) The cement with high content of C_2S is used for hydraulic engineering constructions.
- d) The dry sand and the sand completely flooded with water have practically the same volume.
- e) It is generally advisable to avoid the use of sea sand for engineering purposes.
- f) The construction work carried out by mortar should be kept damp or wet.
- g) The white cement is more costly than ordinary cement.
- h) A mortar with low water retention power is not desirable.

Q2. Distinguish between the followings: [CO1,CO2,CO3] (2×4=8)

- a) Fat lime and Hydraulic lime.
- b) Initial setting time and final setting time of cement
- c) Exogenous trees and endogenous trees
- d) Natural seasoning and artificial seasoning.

Q3. How trees are classified? Draw a neat cross section of an exogenous tree. Show and describe various components of it. [CO3] (5)

Q4. What is meant by seasoning of a timber? What are its objectives? Why artificial seasoning is adopted? Describe various methods. [CO3] (8)