

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATION

B.Tech. IIIrd Semester

COURSE CODE: 18B11CE313

MAX. MARKS:25

COURSE NAME: BUILDING MATERIALS & CONSTRUCTION

COURSE CREDITS: 03

MAX. TIME: 1Hour 30 minutes

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

- Q.1 What is sub soil exploration? Write its objectives. What are the different methods for soil/site exploration? (5 marks)
What is Boring? Discuss any two boring methods in detail with figure. (CO 1, CO 2)
- Q.2 What are the characteristics of a good brick? Explain in detail. (5 marks)
Define following- (CO 1, CO 2)
a) First class bricks
b) Efflorescence
c) Absorption test
- Q.3 Define the following Building byelaws in detail- (5 marks)
a) Aspect (CO 2)
b) Circulation
c) Grouping
Draw the plan and elevation of the following-
a) Stepped Footing – Rectangular and Circular both
b) Combined trapezoidal footing.
- Q.4 Explain geological classification of stones. Define dressing of stone. (5 marks)
Write the different kinds of bonds in brick masonry. Explain any three with figure. (CO 1, CO 2)
- Q.5 What is seasoning of timber? Write its types. Explain any two. (5 marks)
Define following with diagram- (CO 1)
a) Heart shakes
b) Cup shakes
c) Cavity wall