

Roll No.....

Total No. of Printed Pages: 1

Total No. of Questions: [09]

B. Tech (Civil Engg.) (Semester – 5th)
BUILDING MATERIALS & CONSTRUCTION
Subject Code: BCIED1521
Paper ID: [18110735]

Time: 03 Hours

Maximum Marks: 60

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A

(2 marks each)

- Q1. Attempt the following:
- a) Standard size of brick
 - b) Sources of lime
 - c) Harmful ingredients in brick earth
 - d) Slacking of lime
 - e) Annual rings of tree
 - f) Hydration of cement
 - g) Special material for plastered surface
 - h) Hydraulicity of lime
 - i) Sources of dampness
 - j) Modular size of brick

Section – B

(5 marks each)

- Q2. What are the types of bricks and composition of good brick earth?
- Q3. What are cement concrete hollow blocks? Explain their advantages & disadvantages.
- Q4. What are the types of cement? Explain the manufacturing process of Portland cement.
- Q5. What are the types of floors? Also discuss the factors for selecting suitable floors for buildings.
- Q6. Discuss the causes and bad effects of dampness in buildings.

Section – C

(10 marks each)

- Q7. What is meant by seasoning of timber? Explain the defects & market forms of timber.
- Q8. Explain the various tests for cement and uses of different types of cement.
- Q9. Give a note on classification of trees. Explain the structure of trees and storage process of timber.