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Total No. of Printed Pages: 1

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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) Name the constituents of good brick earth.
- b) Differentiate between exogenous and endogenous trees.
- c) Differentiate between 'hydraulic lime' and 'fat lime'.
- d) Write four types of cement.
- e) What is the significance of bonding in brick work?
- f) What are 'Ashlar Joints' in Stone masonry?
- g) What are the constituents of distemper?
- h) Where do you prefer 'Kota Stone' over 'Tiles' for flooring?
- i) Define 'Stretcher' and 'Header'.
- j) What are the objectives of 'Plastering'?

Section – B

(5 marks each)

- Q2. What are the characteristics of good timber?
- Q3. Describe the compressive strength and water absorption test for ascertaining the quality of bricks.
- Q4. Explain briefly manufacture of cement.
- Q5. What are hollow blocks? What are their advantages and disadvantages?
- Q6. Discuss types of floors used in buildings.

Section – C

(10 marks each)

- Q7. Give in detail about any TWO laboratory tests of cement.
- Q8. Discuss preventive measures for dampness in buildings.
- Q9. Write short note on (a) Special material for plastered surface (b) Market forms of Timber.