

Roll No. to be filled in your Answer Book

Roll No.

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**B. Tech**

(Sem. III) UTU EXAMINATION, 2013-14

**Building Material & Construction**

Time : Three Hours]

[Max. Marks : 100

Note: Attempt all.

1. Attempt any four : 4×5=20
  - a. Describe briefly the geological classification of rock.
  - b. Classify various types of lintels?
  - c. What are the qualities of a good paint?
  - d. Write the different type of lime.
  - e. Write a short note on ashlar masonry?
  - f. What do you mean by plastering and pointing.
2. Attempt any two : 2×10=20
  - a. Classify with the help of sketches various types of doors?
  - b. Enumerate the various types of upper floors? Mention the situations where each type may be used.
  - c. What do you understand by scaffolding? What are the essential requirements? What are the component parts of a scaffold?

3. Attempt any two : 2×10=20
- a. What are the various causes of dampness in buildings? What are the ill effects of dampness?
  - b. What do you mean by ventilation? What are the functional requirements of ventilation system?
  - c. Discuss the various considerations made in planning of staircases. Illustrate the different types of stair cases generally used.
4. Attempt any two : 2×10=20
- a. What are the various tests performed on bricks.
  - b. What are the ingredients of cement? Write different type of cement.
  - c. What are the various defects of timber? Explain them with the help of neat sketches.
5. Attempt any two : 2×10=20
- a. What are the different steps used in the manufacturing process of bricks in kilns. Explain them?
  - b. What are the constituents of distemper? Explain the process of distempering.
  - c. Write a short note on:
    1. Chajja
    2. Fire hazards

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