

**R16**

Code No: 133AE

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.Tech II Year I Semester Examinations, April/May - 2018

**BUILDING MATERIALS, CONSTRUCTION AND PLANNING**

(Civil Engineering)

Time: 3 Hours

Max. Marks: 75

**Note:** This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit.

Each question carries 10 marks and may have a, b, c as sub-questions.

**PART-A**

(25 Marks)

- 1.a) Write the precautions to be taken on the blasting process. [2]
- b) Give a note on the plantation of teak trees. [3]
- c) Write short notes on Admixtures. [2]
- d) What are various types of cement? [3]
- e) Give various failures of an arch. [2]
- f) Write short notes on fire protection. [3]
- g) Explain the steps involved in the process of painting on new wood work. [2]
- h) What are the precautions to be taken in laterite masonry work? [3]
- i) Classify the various types of buildings. [2]
- j) What do you understand by principles of planning of a building? [3]

**PART-B**

(50 Marks)

2. Describe the characteristics of good building stones. [10]
- OR**
- 3.a) Explain the defects caused due to seasoning of timber. [5+5]
  - b) What are the objects of preservation of timber?
4. Explain in detail about the procedure to find consistency of cement. [10]
- OR**
5. List and explain the chemical admixtures and its uses. [10]
  6. Elaborate various types of foundations used for building with neat sketches. [10]
- OR**
7. What are the various types of roof tiles? Explain each one with its suitability and shape. [10]
8. What is stucco plastering? Describe the method of applying stucco on interior and exterior walls. [10]
- OR**
- 9.a) Mention the objects of providing pointing and plastering to exposed surfaces. [5+5]
  - b) What is pointing? How is it carried out? What are its different types?

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10. What are building bye laws? Explain the importance of building bye laws. [10]

**OR**

11. Explain different principles used while planning a dispensary in rural areas. [10]

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