

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 latomite 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.
 - b) What are the objects of preservation of timber? [5+5]
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.
 - b) What is pointing? How is it carried out? What are its different types? [5+5]

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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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