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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B.Tech II Year I Semester Examinations, November/December - 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) Define the terms: Dressing and Quarrying. 1.a) [2] What are the constituents of glass? b) [3] c) Define consistency and initial setting time of cement. List out the chemical admixtures. d) List out the types of foundations. e) What are the objectives of fire protection? f)... Differentiate between plastering and pointing. g) What do you understand by scaffolding? h) What are building bye-laws? i) List out the classification of buildings. j) [3] PART-B (50 Marks) Describe the characteristics of good building stones. 2.a) What are the various tests for stones? Explain any one in detail. b)" OR Define seasoning of timber and explain any one method of seasoning. 3.a) State the properties, uses and simple classification of glass. [5+5]b) Describe with flow diagram the wet process of manufacture of cement. 4.a) b) List out the field tests on cement and briefly explain any one test. OR List out the laboratory tests on cement and explain any one test. 5.a) Discuss about mineral admixtures and its uses. [5+5]b) Differentiate between lintel and an arch. 6.a) List out the types of roofs and explain anyone with a sketch. [5+5]b) _____OR _____ Discuss about the essential requirements of good acoustic material. 7.a) Define air-conditioning and explain any one method of air-conditioning. [5+5] b) Explain the various uses of cement mortar. 8.a) [5+5] List out types of bonds and explain anyone with a neat sketch. b)

Differentiate between brick masonry and stone masonry.

List out the desirable requirements of form work.

9.a)

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| | b) Explain t | the buildings base he principles und | | | ·+5] |
| | 11. Briefly e | xplain the followiness b) Circulat | y d) Grouping. | [1 | 0] |
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