

B.Tech II Year I Semester (R13) Regular Examinations December 2014

BUILDING MATERIALS & CONSTRUCTION

(Civil Engineering)

Time: 3 hours

Max. Marks: 70

PART – A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) How are artificial stone prepared?
 - (b) Enumerate various uses of timber.
 - (c) Differentiate between dry process and wet process.
 - (d) What is meant by proportioning of concrete?
 - (e) What are “breathing” and “non-breathing” types of paints?
 - (f) What are the characteristics of a good tile?
 - (g) Discuss various modes of failures of an arch.
 - (h) What are the different types of floors?
 - (i) What is meant by composite masonry?
 - (j) Define foundations and mention their objects.

PART – B

(Answer all five units, 5 X 10 = 50 Marks)

UNIT - I

- 2 Describe the characteristics of good building stones.

OR

- 3 (a) Explain the defects caused due to seasoning of timber.
(b) What are the objects of preservation of timber?

UNIT - II

- 4 (a) How do you classify lime?
(b) Explain in detail about the procedure to find consistency of cement.

OR

- 5 How the tensile strength of concrete is determined in laboratory? Explain with neat sketch.

UNIT - III

- 6 (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?

OR

- 7 (a) What are the various types of roof tiles? Explain each one with its suitability and shape.
(b) Explain the properties and uses of aluminium

UNIT - IV

- 8 (a) With the help of a neat sketch, explain the construction details of lean- to roof.
(b) State briefly the requirements of a good staircase

OR

- 9 What is stucco plastering? Describe the method of applying stucco on interior and exterior walls

UNIT - V

- 10 (a) Describe the different forms of rubble masonry.
(b) What are the various types of Ashlar masonry? Explain any two.

OR

- 11 Explain various types of foundations used for building with neat sketches
