

**BUILDING MATERIALS & CONSTRUCTION**

(Civil Engineering)

Time: 3 hours

Max. Marks: 70

**PART – A**

(Compulsory Question)

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

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