

B.Tech II Year I Semester (R15) Supplementary Examinations June 2018  
**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)
- (a) Write on the geological classification of rocks with examples.
  - (b) Why bricks are wetted before use?
  - (c) What are the functions of glasses in building?
  - (d) List out the most common materials used in the plastics.
  - (e) Write down the properties of thermal insulating materials.
  - (f) List out the sound insulating materials.
  - (g) What is meant by damp proof course?
  - (h) Define scaffolding.
  - (i) Define plastering.
  - (j) Enumerate the defects developed after felling the tree.

**PART – B**  
(Answer all five units, 5 X 10 = 50 Marks)

**UNIT – I**

- 2 Mention the factors to be considered while deciding a quarry site and explain the methods of quarrying.
- OR**
- 3 What are the waste materials from buildings and how these materials can be utilized?

**UNIT – II**

- 4 Discuss in detail about the types of glass and write the advantages and disadvantages of glass.
- OR**
- 5 Explain the moulding and fabricating for plastic products and their uses.

**UNIT – III**

- 6 Explain in detail about the classification of a good sound insulating material.
- OR**
- 7 What are the factors affecting acoustic of building and what are their remedies?

**UNIT – IV**

- 8 Discuss in detail about the types of foundation with neat sketch.
- OR**
- 9 Mention the types of roofs. Explain with neat sketch King post and Queen post roofs.

**UNIT – V**

- 10 Explain briefly about the types of paints and their applications.
- OR**
- 11 What are the composition and properties of distemper? Explain various stages involved in distemping process.

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