

**Th-3 Building Materials and Construction Technology**

**Full Marks: 80**

**Time- 3 Hrs**

**Answer any five Questions including Q No.1& 2  
Figures in the right hand margin indicates marks**

1. Answer **All** questions 2 x 10
  - a. Which type of geological rock is formed by the solidification of magma below the earth's surface?
  - b. Which part of the brick act as a shear key against horizontal load when filled with mortar?
  - c. What is workability of concrete?
  - d. Name the properties developed by reducing the moisture content of timber.
  - e. What are the constituents of varnish?
  - f. Write the objectives of site investigation.
  - g. What are the classification of building based on occupancy (any four)?
  - h. What is the purpose of foundation?
  - i. What do you mean by three quarter bat?
  - j. What is meant by ventilators?
  
2. Answer **Any Six** Questions 6 x 5
  - a. Explain the characteristics of good building stone.
  - b. State the function of constituent parts of paints.
  - c. Classify and explain piles based on materials.
  - d. Mention the types of doors used in building and explain any two types with neat sketch.
  - e. Write down the types of turning stairs and explain any two turning stairs with sketch.
  - f. Explain the method of constructing cement concrete flooring.
  - g. What do you mean by green building? Describe different types of energy audit in a building.
  
3. Explain different operations involved in the brick manufacturing process. 10
4. Explain different ingredients and their function in cement. Also mention different types of cements available as per grade of cement. 10
5. Explain different methods adopted for seasoning of timber. 10
6. Explain different types of rubble masonry with figure. 10
7. Explain different types of plaster finishes. 10