

Code: R7 210104

R7

B.Tech II Year I Semester (R07) Supplementary Examinations, May 2012

BUILDING MATERIALS AND CONSTRUCTION**(Civil Engineering)**

Time: 3 hours

Max Marks: 80

Answer any FIVE questions

All questions carry equal marks

- 1 (a) What are the qualities of good building stones? Discuss them
(b) What is the texture of rock? Enumerate its various types.
- 2 With the help of a neat sketch, explain the working of Hoffman's kiln for the burning of bricks.
- 3 Write on the following:
(a) Vicat apparatus.
(b) Le-chatlier apparatus.
(c) Flow diagrams of cement manufacture by wet process.
- 4 (a) Explain different types of shakes in timber.
(b) Explain in what way fiber-reinforced plastics can be alternate material to wood.
- 5 (a) Discuss the general principles in brick masonry construction.
(b) What is the difference between English bond and Flemish bond in brick masonry?
- 6 Differentiate between the following:
(a) Floating foundation and raft foundation.
(b) Combined footing and strap footing.
- 7 (a) Explain the various terms by means of a neat sketch, used in connection with the arch work.
(b) Explain the construction procedure of a concrete floor, giving its relative merits and De-merits.
- 8 (a) What is stucco plastering? Describe the method of applying stucco on interior and exterior walls.
(b) How do you select the materials and sizes of forms for construction work?
