

Code: 9A01305

R09

B. Tech II Year I Semester (R09) Supplementary Examinations, May 2013

BUILDING MATERIALS & CONSTRUCTION

(Civil Engineering)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 What are the various atmospheric and external agencies which are responsible for the deterioration of stones?
- 2 What are encaustic tiles? Describe their manufacturing process.
- 3 What is standard consistency of cement? How it is determined in the laboratory?
- 4 Explain various defects in timber due to natural forces.
- 5 (a) Explain the factors that affect the strength of brick masonry.
(b) How do you decide the thickness of a brick wall?
- 6 (a) Explain briefly the method of determining the bearing capacity of soil by conducting the plate load test.
(b) Define framed structure. State the advantages of framed structure.
- 7 (a) What is the difference between the actions of a brick arch and an RCC arch?
(b) What are lintels? Sketch a lintel combined sunshade for an external doorway.
- 8 (a) Give the various specifications for cement plaster and describe how it is carried out on brick masonry.
(b) Explain methods of curing lime plaster and cement plaster.
