

Code: 9A01305

**R09**

B.Tech II Year I Semester (R09) Supplementary Examinations June 2016

**BUILDING MATERIALS & CONSTRUCTION**

(Civil Engineering)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions

All questions carry equal marks

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- 1 (a) Explain the factors that affect the strength of bricks.  
(b) What are the uses of bricks? Explain.
- 2 (a) Discuss the varieties of terra-cotta.  
(b) Explain what is meant by earthenware and stoneware.
- 3 Write notes on the following terms:  
(a) Fineness test.  
(b) Low Heat cement.  
(c) Blast furnace cement.
- 4 (a) What do you understand by polymerization? Explain the mechanism of polymerization.  
(b) Differentiate between addition and condensation polymerization.
- 5 (a) Write a short note on brick joint work.  
(b) What is meant by "raking of joints" in brickwork? Describe in what situations, raking of joints is obligatory and state how it is to be carried out?
- 6 (a) What do you understand by raft foundation? When do you prefer this?  
(b) Explain with the help of sketches common types of raft foundation.
- 7 (a) What are the factors that affect the choice of flooring material  
(b) Briefly describe the construction of terrazzo flooring.
- 8 (a) Describe the procedure for carrying out the plaster in cement mortar in two coats.  
(b) What are the special materials applied on the plastered surfaces to make them attractive and durable.

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