

Code: 9A01305

B.Tech II Year I Semester (R09) Supplementary Examinations June 2017

**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) Discuss the operation of preparation of clay for the manufacture of bricks.  
(b) Describe about ways of moulding of bricks.
- 2 Describe briefly the clarification of tar and the specifications of bitumen as a building material.
- 3 Give sketches of the following:
  - (a) Rotary kiln.
  - (b) Le Chatelier apparatus.
  - (c) Longitudinal section of a tube mill.
- 4 (a) Write a critical note on the storage of timber.  
(b) What is meant by industrial timber? What are its varieties?
- 5 (a) Draw the figures of Flemish bond for 2 and 2 ½ brick.  
(b) Give instances where you will use:
  - (i) Random rubble work.
  - (ii) Ashlar work.
- 6 (a) Sketch typical timber grillage foundations for the following
  - (i) Masonry wall.
  - (ii) Wooden post.  
(b) Explain the method of construction of grillage foundation.
- 7 (a) Give a short account of the different types of concrete shell roofs.  
(b) Describe the procedure of construction of a doubly curved tile roof.
- 8 (a) What are white washing and colour washing? How are these carried out in a building?  
(b) Specify what type of paint would you use for the following:
  - (i) Window grills.
  - (ii) Ceiling of rooms.
  - (iii) Interior wall surfaces

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