

END TERM EXAMINATION

THIRD SEMESTER [B.TECH] DECEMBER- 2017

Paper Code: ETCE-207

Subject: Building Material and Construction

Time: 3 Hours

Maximum Marks: 75

Note: Attempt all questions as directed. Internal Choice is indicated.

- Q1 Attempt **any five** parts from the following:- (5x5=25)
- (a) Differentiate between cavity wall and partition wall?
 - (b) Define the damp proofing and their use in building construction?
 - (c) Briefly define the doors in a technical term and their uses?
 - (d) Write a short note on various types of the glasses and their uses in the building construction?
 - (e) Differentiate between ready mix concrete and pre cast concrete?
 - (f) Differentiate between door and windows with a standard size?
 - (g) What do you understand by plastering and pointing?
- Q2 (a) Define the bricks? Write down the manufacturing and classification of bricks and their uses? How the Conventional brick is different in comparison to modular brick. (12.5)
- OR
- Q3 Define the pozzulana cement? Write down the properties and their classification on the basis of uses in building construction? (12.5)
- Q4 Define the green building concept? What are the green features? Also explain any one of the rating systems. (12.5)
- OR
- Q5 Explain the workability, mix proportion and grade of concrete? What are types of grade used mainly in construction work? (12.5)
- Q6 Discuss in details about deep and shallow foundation with neat sketches? Write down the basic components of the building? (12.5)
- OR
- Q7 Discuss the brick and stone masonry? Give safe permissible loads on brick masonry:
- (i) Brick masonry in mud
 - (ii) Brick masonry in c.m. I class
 - (iii) Ordinary brickwork in 1.m.
- (12.5)
- Q8 What do you understand by smart materials and also discuss about their uses in structures. (12.5)
- OR
- Q9 Explain the various types of staircases with a suitable diagrams? Also discuss which type of stairs are most suitable in Multi-storey buildings?(12.5)

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