

(DCE 212)

B.Tech. DEGREE EXAMINATION, MAY - 2015

(Examination at the End of Second Year)

CIVIL ENGINEERING

Paper - II : Building Materials & Constructions

Time : 3 Hours

Maximum Marks : 75

Answer question No.1 compulsory

(15 × 1 = 15)

Answer ONE question from each unit

- 1) a) What are the Qualities of a good building stone?
- b) What is meant by Dressing of stones?
- c) What is meant by hydraulicity?
- d) What are the advantages of cavity walls?
- e) Give the Cross Section details of an exogenous tree.
- f) Write few barrier materials for Sound Insulation.
- g) What is annealing Process in case of steel.
- h) Mention advantages of pitched roofs.
- i) What are artificial stones?
- j) What are terrazzo and mosaic?
- k) Give a neat sketch of a coping.
- l) What is a Veneered wall?
- m) What is the purpose of through stone?

- n) Mention few damp proof materials.
- o) What is the functions of king post in a king Post roof truss?

UNIT – I

- 2) a) Write a brief note on various tests that are conducted for stones. (8)
- b) Explain the methods of stone quarrying. (7)

OR

- 3) a) Write in detail about manufacturing of bricks. (8)
- b) What is the composition of good brick earth? (7)

UNIT – II

- 4) a) Explain the process of painting for new wood work. (5)
- b) Write short notes on corrosion and its control. (5)
- c) Noise pollution and its control. (5)

OR

- 5) a) Explain about various defects in painting. (7)
- b) What is reasoning of timber? Explain various methods. (8)

UNIT – III

- 6) a) Write the differences between English bond and Flemish bond. (8)
- b) What is meant by hearing capacity of soils? How can it be improved? (7)

OR

- 7) a) With neat sketches explain different types of Rubble masonry. (8)
- b) State the various factors affecting the selection of foundations. (7)

UNIT – IV

- 8) a) What are the different types of scaffolding? (7)
- b) With neat sketches explain King post truss and Queen post truss. (8)

OR

- 9) a) Write short notes on :-
- i) Form work (3)
 - ii) Cement concrete flooring (3)
- b) Briefly explain about methods of underpinning. (3)
- c) Explain the advantages and disadvantages of flat roofs. (6)

