



B.Tech II Year I Semester (R13) Regular & Supplementary Examinations December 2015

BUILDING MATERIALS & CONSTRUCTION

(Civil Engineering)

Time: 3 hours Max. Marks: 70

PART – A

(Compulsory Question)

- 1 Answer the following: $(10 \times 02 = 20 \text{ Marks})$
 - (a) Write on the geological classification of rocks with examples.
 - (b) Enumerate the defects developed after felling the tree.
 - (c) State the constituents of limestone.
 - (d) What is the hydration of cement?
 - (e) Write short notes on Mangalore tiles.
 - (f) Write the uses of aluminium.
 - (g) Enumerate the technical terms associated with design and construction of stairs.
 - (h) Write on Lean to roof.
 - (i) What is mat footing?
 - (j) Differentiate English and Flemish bond.

PART - B

(Answer all five units, 5 X 10 = 50 Marks)

UNIT – I

- 2 (a) Write the comparison between clamp and kiln burning of bricks.
 - (b) Describe the cross section of a tree.

OR

- 3 (a) Describe the Hoffman's kiln for manufacturing of bricks
 - (b) Write on the properties and uses of plastics.

UNIT - IL

- 4 (a) Describe the continuous flame type kiln for manufacturing of lime.
 - (b) Explain the properties of: (i) Quick setting cement. (ii) Pozzolana cement.

OR

- 5 (a) Explain the slump test for measurement of workability of concrete.
 - (b) Explain the ingredients of cement concrete and their functions.

UNIT - III

- 6 (a) Write short notes on Pot tiles, Pan tiles and Sialkot tiles.
 - (b) Write on the causes and effects of dampness.

OR

- 7 (a) Describe the constituents of the paints.
 - (b) Write short notes on: (i) Double scaffolding. (ii) Cantilever scaffolding.

(UNIT - IV)

- 8 (a) Write short notes on: (i) Doglegged stairs. (ii) Open newel half turn stairs.
 - (b) With neat sketch describe queen post truss.

OR

- 9 (a) Explain the types of pointed arches.
 - (b) With neat sketch describe King post truss.

UNIT – V

- 10 (a) Describe the random rubble masonry.
 - (b) Describe the combined strap footing.

OR

- 11 (a) Explain about the construction of a cavity wall.
 - (b) Describe the glass partition walloww.FirstRanker.com