

Code: 15A01302

R15

B.Tech II Year I Semester (R15) Regular Examinations November/December 2016

**BUILDING MATERIALS & CONSTRUCTION**

(Civil Engineering)

Time: 3 hours

Max. Marks: 70

**PART – A**

(Compulsory Question)

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- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) Differentiate traditional and organic building materials.
  - (b) Write on the classification of bricks.
  - (c) Write the properties of glass.
  - (d) Write the advantages and disadvantages of plastics.
  - (e) State the classification and selection of insulating materials.
  - (f) Write briefly about the mechanism of absorption.
  - (g) Differentiate English bond and Flemish bond.
  - (h) Write the comparison of flat roofs Vs sloped roofs.
  - (i) Describe briefly about the oil paint.
  - (j) Enumerate the partition walls.

**PART – B**

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

**UNIT – I**

- 2 Diagrammatically explain the burning of bricks in kilns.

OR

- 3 Explain the materials for low cost housing.

**UNIT – II**

- 4 Describe the commercial forms of glass.

OR

- 5 Explain the applications of plastic and intelligent use of plastics in buildings.

**UNIT – III**

- 6 Explain the thermal properties of insulating materials and the general methods of thermal insulation.

OR

- 7 Describe the commonly used insulating materials in buildings.

**UNIT – IV**

- 8 Describe the constructional procedures and uses of cavity wall.

OR

- 9 Describe the half turn stairs with diagrams.

**UNIT – V**

- 10 Explain the ingredients of paints with examples.

OR

- 11 Explain briefly the types of paints.

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