

**R15****Code No: 124CK****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B.Tech II Year II Semester Examinations, May - 2017****BUILDING MATERIALS, CONSTRUCTION AND PLANNING****(Common to CE, CEE)****Time: 3 Hours****Max. Marks: 75****Note:** This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit.

Each question carries 10 marks and may have a, b, c as sub questions.

**PART- A****(25 Marks)**

- 1.a) Define the term dressing of stones. [2]
- b) Write the properties of good brick. [3]
- c) Define the term Admixture and state any two examples of admixtures. [2]
- d) Define the term hydration and what is the use of hydration? [3]
- e) Explain the Requirements of ventilation in residential building. [2]
- f) Write types of staircase and draw only two staircase plan's. [3]
- g) Define pointing. [2]
- h) Explain briefly about header and stretcher. [3]
- i) Write about floor area ratio. [2]
- j) Define Residential building. [3]

**PART- B****(50 Marks)**

2. Explain the chemical composition of brick and explain the preparation of bricks. [10]

**OR**

3. Define the term wood and explain the reinforced glass fibre bricks. [10]

4. Explain the manufacturing of cement with neat sketch. [10]

**OR**

5. Explain the chemical admixtures and its uses. [10]

6. Draw the plan and elevation and section of a Glazed and half panelled door. [10]

**OR**

- 7.a) Draw the plan and elevation of fully panel window.
- b) Explain briefly classification of fire resistant materials. [5+5]

- 8.a) Explain types of scaffolding with a neat sketch.
- b) Write about rubble masonry. [5+5]

**OR**

9. Explain about English band and draw the plan and elevation of one and half brick wall showing Flemish bond. [10]

10. Explain the classification of buildings with material specifications. [10]

**OR**

11. Explain the Building Bye-laws. [10]