

R13

Code No: 114CK

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 plans. [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. [5]
- b) Explain briefly classification of fire resistant materials. [5]

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