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**DR. BABASAHEB AMBEDKAR TECHNOLOGICAL
UNIVERSITY, LONERE – RAIGAD – 402 103**
Winter Semester Examination – Dec – 2019

Branch: B. Arch (First Year)

Sem.: I

Subject: Building Construction Technology & Materials-I Marks: 50

Subject Code: AR10100003

Date: 05/12/2019

Time: 3 Hrs

Instructions: 1. All Questions are compulsory.
2. Do not erase construction lines

Q. No. 1 Solve any TWO of the following:

(10 Marks)

- A) What are the harmful ingredients in brick earth?
- B) Describe Classification of Lime.
- C) Explain important properties of cement.

OR

Q. No. 1 Explain in detail the Preparation of clay in the process of manufacturing of brick.

(10 Marks)

Q. No. 2 Attempt any ONE of the following:

(20 Marks)

- A) Draw proportionate sketches of ANY FOUR of the following
 - 1) Queen – closer (Half)
 - 2) Bevelled closer
 - 3) Three Quarter Bat
 - 4) Mitred closer
 - 5) King closer

- B) Draw neat labeled sketches of Plan, elevation and isometric view with three successive courses of 1 and ½ bk thk wall in Double Flemish bond .

Q. No. 3 Attempt any ONE of the following:

(20 Marks)

- A) Draw a sketch plan of two successive courses of one and half bk. Thk. Main wall and One bk. Thk. Cross wall in Cross junction in English Bond.

B) Draw a detail labeled section and plan of Load bearing foundation.

Thickness of bk. wall is 350-mm.and depth of foundation 1.45 m below the ground.

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