

**DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY,**

**LONERE-RAIGAD-402 103**

**Semester Examination- March- 2019**

**Branch: B.Arch (Second Year Architecture)**

**Semester: IV**

**Subject: Building Construction Technology and Materials -IV**

**Marks: 60**

**Subject Code: AR20040003**

**Date: 12/03/2019**

**Time: 3 Hrs.**

**Introduction:** 1. All Questions are compulsory.  
2. Draw sketches if required.

- Q.No.1** Why foundation is necessary for Building? Draw the detailed sketches (Plan and sections) of the following R.C.C foundations (Any Two) **( 20 Marks)**
- a) Eccentric footing
  - b) Isolated Stepped footing
  - c) Strap foundation
- Q.No. 2** What are the advantages and disadvantages of cast in situ concrete and Precast concrete? **( 10 Marks)**
- Q.No. 3** Describe in detail any of the two of the following type of Concrete? **( 10 Marks)**
- a) Ready-mix Concrete
  - b) Light Weight Concrete
  - c) Plain Cement concrete
  - d) High Density Concrete
- Q.No. 4** Explain in detail the following cladding materials? **( 10 Marks)**
- a) Alluminium Composite Panel (ACP)
  - b) Artificial tiles
  - c) Natural stone
  - d) Curtain Glass
- Q.No. 5** Write notes on followingg Insulating materials (Any Two) **( 10 Marks)**
- a) Gypsum Boards
  - b) Rock wool
  - c) Acoustical plaster
  - d) Foamed Concrete