

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA IN ARCHITECTURE – SEMESTER – I • EXAMINATION – SUMMER 2016

Subject Code: 3316203

Date: 09- 06- 2016

Subject Name: Construction Technology - I

Time 02:30 PM TO 04:30 PM

Total Marks: 50

Instructions:

1. **Attempt all questions.**
2. **Make Suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**
4. **Supplement your answer with neat sketches wherever necessary.**

- Q.1** Explain the following Terms and also draw a neat sketch for the same for any Five. **10**
1. Beam
 2. Column
 3. Retaining Wall
 4. Cavity Wall
 5. Brick Bond
 6. Cornice
 7. P.C.C.
- Q.2** (a) Write a short note on “Random Rubble” stone masonry **05**
OR
(a) Write an explanatory note on the RCC Frame Structure **05**
(b) Write a short note on “Ashlar” stone masonry **05**
OR
(b) Write an explanatory note on the “Curing”. **05**
- Q.3** Draft / sketch alternative plans and elevation for min four courses for one and half brick thick English Bond. **10**
OR
Draft / sketch alternative plans and elevation for min four courses for double Flemish Bond for the wall thickness of your choice. **10**
- Q.4** (a) What is “Cement” ?, **05**
Enlist types of Cement and briefly describe any one of them
OR
(a) Discuss Laboratory tests for checking the quality of the Concrete. **05**
(b) Discuss field tests for checking the quality of the cement. **05**
- Q.5** Draft / Sketch a typical wall section for a single floor Composite Masonry structure and label any five construction elements in the same. **10**
