

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA ENGINEERING – SEMESTER–I/II • EXAMINATION–SUMMER - 2017

Subject Code:3316203**Date: 05/07/ 2017****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.

- Q.1 (a)** Explain the following Terms and also draw a neat sketch for the same for any Five. **05**
1. Beam
 2. Column
 3. Retaining Wall
 4. Cavity Wall
 5. Brick Bond
 6. Cornice
- (b)** Write a short note on “Random Rubble” stone masonry **05**
- Q.2 (a)** Write an explanatory note on the RCC Frame Structure **05**
- (b)** Write an explanatory note on the “Curing”. **05**
- Q.3 (a)** Draft / sketch alternative plans and elevation for min four courses for double Flemish Bond for the wall thickness of your choice. **05**
- (b)** Enlist the basic material of construction. Explain any three in detail. **05**
- Q.4 (a)** What is “Cement” ?, Enlist types of Cement and briefly describe any one of them **05**
- (b)** Explain Manufacturing process of brick. **05**
- Q.5 (a)** Discuss Laboratory tests for checking the quality of the Concrete. **05**
- (b)** Draw / Draft to scale 1:20 **05**
A typical 230 mm thick wall section of a single storied building & denote all
The part from top to bottom.
