Seat	No.:	

Enrolment No.\_\_\_\_\_

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

BARCH – SEMESTER VI– • EXAMINATION – SUMMER 2015

Subject code: 1065005

Subject Name: Estimating & Costing

Time: 10.30am-12.30pm

## **Instructions:**

- 1. Question number one and two are compulsory.
- 2. Attempt any three questions from remaining five questions.
- 3. Make suitable assumptions wherever necessary.
- 4. Figures to the right indicate full marks.
- 5. Each question carry equal marks (10 marks)
- Q.1 (a) Prepare detail Measurement sheet for the following items of work for residential plan as given in fig. (a), all wall thickness (exterior & interior) are 30cm,
  - i) Earthwork in Excavation
  - ii) Brick-work up to Plinth,
  - iii) Doors & Windows
  - iv) White washing

Also write brief specification for each item.

- **Q.2** (a) Prepare detail measurement sheet for RCC slab as given in fig. (b). **10**
- **Q.3** (a) Define Specification. Write its importance. Explain in detail types of **05** specifications.
  - (b) Write down detail specification of first class brick work in cement mortar 05 (1:6) for superstructure.
- Q.4 (a) Define the following i) Lead, ii) Lift, iii) Royalty charges, iv) Open 10 Specification, v) Analysis of rates.
- **Q.5** (a) Write down in detail purpose of rate analysis and Factors affecting rate **05** analysis.
  - (b) Write short note on -i) Contingencies, ii) Work-charged Establishment. 05
- **Q.6** (a) Perform Rate Analysis for PCC (1:2:4) in foundation with ballast 40mm **10** for 10 cubic meter.
- **Q.7** (a) Perform rate analysis for 2<sup>nd</sup> class brickwork in foundation and plinth with 20cmx10cm bricks with cement mortar (1:6) for one cubic meter.

P.T.O.

\*\*\*\*\*

**Total Marks: 50** 

Date: 12/05/2015

NOTE: - All Dimensions Hoe In Mtr.  $\Rightarrow$  Fig. (a). P.L. BED-ROOM 0.6 3.0 V K.L. 4.5 × 3.0 0.39 0.6 DI DI W 0.2 10.4D \* LIVING ROOM KITCHEN 0.50 0.2 WI 0 0.2 0.60 4.5 × 6.0 3.80 × 4:30 P. A. A. A Pe 0.2 0.90 W, W 1.7 FOUNDATION W PLAN SECTION 5 Schedule - POOR 1.20 x2.10 D ·0×2.10 OPENING -1-20×2.10 WINDOW-W=1.2×1.40 =1.50×1.20 FLOOR TO FLOOR Ht. = 3.0 m.

