

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.ARCH - SEMESTER- VI • EXAMINATION – WINTER 2016**

**Subject Code: 1065005****Date: 27/10/2016****Subject Name: Estimating & Costing****Time: 02:30PM – 04:30PM****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 Data required for preparing and estimate. **05**  
 (b) Write down methods of preparing approximate estimate. **05**
- Q.2** Draft a tender for repair of windows and doors of military hospital having a cost of 125 lakhs fees of tender is 10,000. Last date of tender is 10<sup>th</sup> May 2015. **07**
- Q.3** (a) Explain the term specification. State the importance of it. **06**  
 (b) Define the following: (any two) **04**
1. Tender fees
  2. Ernest money deposit
  3. Security deposit
- (c) Find the quantity and rate analysis for 100 m<sup>2</sup> area and 12 mm thick plaster (1:4). **08**
- OR**
- Q.3** (a) Mention the factor affecting the rate analysis. **10**  
 (b) Calculate the following: **08**
1. Number of bricks required in 1 cum brickwork.
  2. Quantity of sand for 1 cum P.C.C. cements mortar 1:1.5:3.
- Q.4** A Reinforced Cement concrete column in shown in figure. Calculate the quality of the following items. **15**
1. 1:2:4 cement concrete of column and footing.
  2. Form work for column and footing.
  3. Steel for column and footing in kg.
  4. No. of cement bags 1:2:4 R.C.C.
  5. Sand aggregate for 1:2:4 Concrete.

Weight of steel  
 12mm dia. = 0.9 kg/m  
 08mm dia. = 0.4 kg/m  
 16mm dia. = 1.6 kg/m

