

Seat No.: \_\_\_\_\_

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

**GUJARAT TECHNOLOGICAL UNIVERSITY**

**B.ARCH - SEMESTER-6- EXAMINATION – SUMMER 2018**

**Subject Code:1065005**

**Date:08/05/2018**

**Subject Name:Estimating & Costing**

**Time:10.30AM TO 12.30PM**

**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) Define rate analysis and write purpose of rate analysis. [10]  
(b) Explain factors affecting rate analysis.
- 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 10th June 2018 . [7]
- Q.3 (a) Work out the quantity of items listed below of chaukidar quarter shown in fig [10]  
(a).  
1) Earth work  
2) C.C. for foundation  
3) IInd class brick masonry in CM (1:6) for foundation and plinth  
4) Wood work for doors, windows and ventilators  
OR
- Q.3 (a) Prepare an estimate of a RCC beam as shown in fig (b). (bar bending schedule is [10]  
not required)
- Q.4 A Reinforced Cement concrete column in shown in figure. Calculate the quality of [13]  
the following items.  
1. 1:2:4 cement concrete of column and footing.  
2. Sand aggregate for 1:2:4 Concrete.  
3. Form work for column and footing.  
4. No. of cement bags 1:2:4 R.C.C.  
5. Steel for column and footing in kg.  
OR
- Q.4 (a) Find the quantity and rate analysis for 100 m<sup>2</sup> area and 12 mm thick plaster [8]  
(1:4).  
(b) Explain Data required for preparing and estimate. [5]
- Q.5 (a) Explain the term specification. State the importance of it. [6]  
(b) Define the following: (any two) [4]  
1. Tender fees  
2. Ernest money deposit  
3. Security deposit