GUJARAT TECHNOLOGICAL UNIVERSITY

B.ARCH. - SEMESTER-VI EXAMINATION - WINTER 2015

Subject Code: 1065005 Date:07/12/2015

Subject Name: Estimating & Costing

Time: 02:30pm to 4:30pm Total Marks: 50

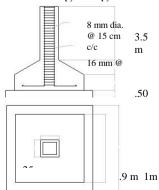
Instructions:

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.
- Q.1 (a) Write down in detail purpose of Rate Analysis and Factor affecting rate Analysis. 06
 - **(b)** Write down details specification of first class brick work in cement mortar. (1:6) for superstructure.
- Q.2 (a) Write down methods of preparing approximate estimate. 05
 - (b) Enlist the Data required for preparing and estimate. 05
- Q.3 (a) 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 May 2015.
 - (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.

Or

- **Q.3** (a) Find the quantity and rate analysis for 100 m^2 area and 12 mm thick plaster (1:4).
 - (b) Define the following: (any two) 04
 - 1. Tender fees
 - 2. Ernest money deposit
 - 3. Security deposit
 - (c) Explain the term specification. State the importance of it.
- Q.4 A Reinforced Cement concrete column in shown in figure. Calculate the quality of 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.

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



04

04