

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

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

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**BE - SEMESTER-VII (NEW) - EXAMINATION – SUMMER 2017**

**Subject Code: 2170610**

**Date: 06/05/2017**

**Subject Name: Professional Practices & Valuation**

**Time: 02.30 PM to 05.00 PM**

**Total Marks: 70**

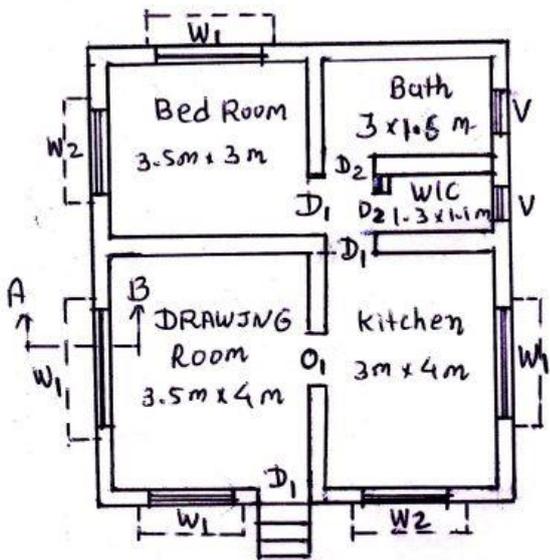
**Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

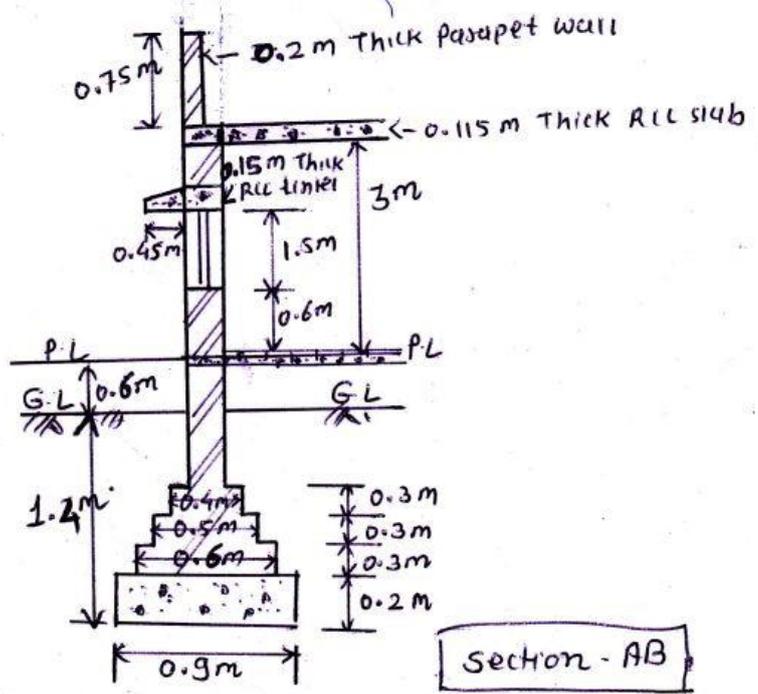
- Q.1 (a)** For the following given figure 1, calculate the quantities of following items by centre line method. **07**
1. Earth work in excavation in foundation.
  2. Brick masonry work in foundation up to plinth in cm 1:6.
  3. Brick masonry work above plinth up to slab level.
- (b)** (I) For the following given figure 1, calculate the quantity of smooth plaster inside the rooms and ceiling. **04**
- (II) A frustum of circular cone has base radius 0.6 m, tip radius 0.3 m and height 1.2 m. Determine its volume and surface area. **03**
- Q.2 (a)** Write the detailed specification for the cement plaster in CM (1:6) on walls. **07**
- (b)** Explain in brief different types of detailed estimate. **07**
- OR**
- (b)** Explain with suitable example long wall- short wall method of preparing building estimate. **07**
- Q.3 (a)** Write the detailed specification for the first class brickwork in CM (1:6). **07**
- (b)** Enlist different types of contract and explain any one in detail. **07**
- OR**
- Q.3 (a)** Define tender and draft a typical tender notice for civil engineering works. **07**
- (b)** Explain in brief various principles of writing good specifications. **07**
- Q.4 (a)** Explain in detail various reasons for termination of contract. **07**
- (b)** What is rate analysis? Explain in brief various factors affecting the rate analysis. **07**
- OR**
- Q.4 (a)** Enlist the various methods of valuation and explain any one in detail. **07**
- (b)** Write short note on : **07**
1. Scrutiny of tender
  2. Classification of tender
- Q.5 (a)** Define the following terms: **07**
1. Scrap value
  2. Estimating
  3. Cost
  4. Salvage value
  5. Book Value
  6. Free hold property
  7. Lease hold property
- (b)** Work out rate analysis for Cement Concrete (1:4:8) for foundation. **07**
- OR**
- Q.5 (a)** What is valuation? Explain in brief various purposes of Valuation. **07**
- (b)** A motor cycle was purchased in RS.80, 000/- assuming its salvage value at the end of 6 years to be Rs. 20,000/-. Determine the amount of depreciation for each year by (i) Straight line method (ii) Constant percentage method. **07**

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Fig-1



Note:-  
 All walls are 30 cm Thick  
 Door- window schedule:-  
 $D_1 = 1.2 \times 2.1 \text{ m}$   
 $D_2 = 1 \times 2.1 \text{ m}$   
 $O_1 = 1.2 \times 2.1 \text{ m}$   
 $W_1 = 1.5 \times 1.5 \text{ m}$   
 $W_2 = 1.2 \times 1.2 \text{ m}$   
 $V = 0.6 \times 0.6 \text{ m}$



Section - AB