

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**BARCH – SEMESTER VI– • EXAMINATION – SUMMER 2015**

**Subject code: 1065005****Date: 12/05/2015****Subject Name: Estimating & Costing****Time: 10.30am-12.30pm****Total Marks: 50****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)

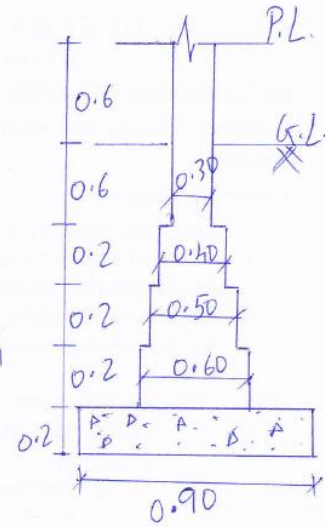
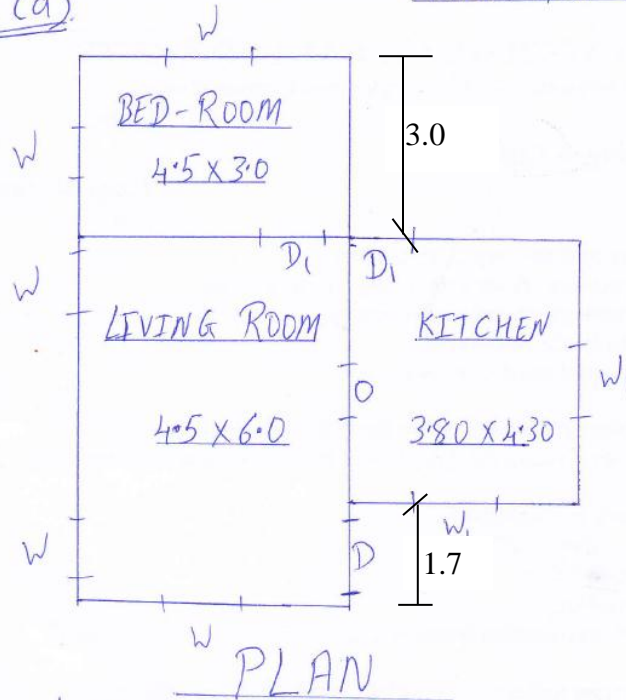
- Q.1** (a) Prepare detail Measurement sheet for the following items of work for residential plan as given in fig. (a), all wall thickness (exterior & interior) are 30cm, **10**
- i) Earthwork in Excavation
  - ii) Brick-work up to Plinth,
  - iii) Doors & Windows
  - iv) White washing
- Also write brief 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 specifications. **05**
- (b) Write down detail specification of first class brick work in cement mortar (1:6) for superstructure. **05**
- Q.4** (a) Define the following – i) Lead, ii) Lift, iii) Royalty charges, iv) Open Specification, v) Analysis of rates. **10**
- Q.5** (a) Write down in detail purpose of rate analysis and Factors affecting rate analysis. **05**
- (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 for 10 cubic meter. **10**
- Q. 7** (a) Perform rate analysis for 2<sup>nd</sup> class brickwork in foundation and plinth with 20cmx10cmx10cm bricks with cement mortar (1:6) for one cubic meter. **10**

P.T.O.

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⇒ Fig. (a)

NOTE:- All Dimensions Are In Mtr.



FOUNDATION SECTION

⇒ Schedule:-

→ DOOR - D - 1.20 x 2.10

\_\_\_\_\_ D<sub>1</sub> - 1.0 x 2.10

OPENING - O - 1.20 x 2.10

WINDOW - W = 1.2 x 1.40

\_\_\_\_\_ W<sub>1</sub> = 1.50 x 1.20

FLOOR TO FLOOR Ht. = 3.0 m.

⇒ Fig. (b) - N.T.S.

