

GUJARAT TECHNOLOGICAL UNIVERSITY
BE – SEMESTER–VIII • Remedial EXAMINATION – WINTER 2013

Subject Code: 180603**Date: 17/09/2013****Subject Name: Professional Practice and Valuation****Time: 03:00 pm – 06:00 pm****Total Marks: 70****Instructions:**

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

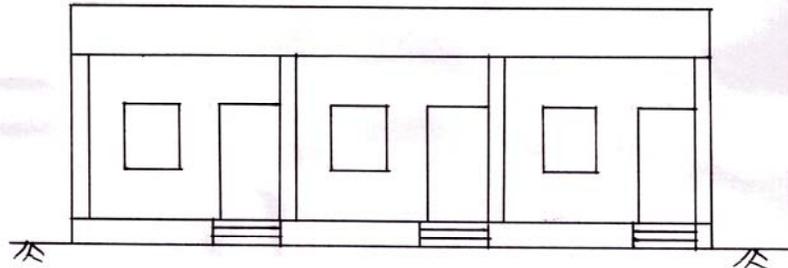
- Q.1** The plan of a row house is shown in Figure-1. Calculate quantity of following items in a quantity sheet. Adopt suitable brief specifications. **14**
1. Excavation in foundation.
 2. Plain Cement Concrete (P.C.C.) in foundation and steps in 1:4:8
 3. Brickwork in foundation (up to Ground Level)
 4. Brickwork in super structure in cement mortar 1:6
 5. R.C.C. work in Slab, Chhajja (0.6 m. projection) and Lintel (bearing 0.1 m on wall)
 6. Earth filling in excavation trenches
- Adopt following details:
- (1) Plinth height = 0.45 m.
 - (2) For steps, take riser = 15 cm and Tread = 30 cm.
 - (3) Consider chhajja over kitchen door and window only.
 - (4) Take wall thickness = 30 cm , Parapet thickness = 20 cm
 - (5) For flooring details, lintel details foundation details and step details, refer typical sketches given in drawing.
 - (6) Each row house is separate at verandah and on terrace
- Q.2 (a)** 1. Adopt suitable rates and prepare abstract sheet for the items calculated in Question 1 and work out total cost. **04**
2. Illustrate with an example of Centre line method and Long-wall Short-wall method of taking out quantities of a building. **03**
- (b)** Write detailed specifications of following items (Any two) **07**
1. 1st class Brickwork in Cement Mortar 1:6.
 2. Centering and shuttering.
 3. Distempering on walls and ceiling
 4. Plain Cement Concreting (M20)
- OR
- (b)** Define specification. What are the purposes of writing specifications ? **07**
 Also state importance of it.
- Q.3 (a)** What is the significance of market survey in civil engineering ? How the rate of an item is derived by method of rate analysis ? **07**
- (b)** Find the rate of 1st class brickwork (nominal size 20×10×10cm) in cement mortar 1:6 per cu. m. by Rate analysis. Assume suitable rates of material and labour. **07**
- OR
- Q.3 (a)** List various types of labour employed for construction work. Categorize them into skilled or unskilled labour. State their prevailing wages according to SOR of your district. Also write a short note on SOR. **07**
- (b)** Define Rate Analysis. What are the purposes of it ? Also state the factors affecting rate of an item. **07**

- Q.4 (a)** Define contract. Explain (i) Turn key contract (ii) Labour contract and (iii) Item rate contract **07**
- Q.4 (b)** Prepare a tender notice for a construction of storage building having area of 1000 m² owned by GTU for storage of utilized answer books. **07**
- OR
- Q.4 (a)** Explain in brief (i) Open tender and (ii) Selected or limited tender. Also state the situation under which the need of an arbitrator arises ? **07**
- (b)** Explain following related to contract **07**
- (1) Earnest Money Deposit (EMD) (2) Security Deposit
(3) Liquidated Damage.
- Q.5 (a)** Define (i) Capitalized value and (ii) Year's purchase with suitable example **04**
- (b)** Explain different types of outgoing and taxes. **03**
- (c)** The owner of a property wants to sell his property at an offer of Rs. 10,00,000/-. The details are as under : **07**
1. Monthly rent = 7500/-
 2. Estimated life of property = 25 years
 3. Out goings = 30 % of gross rent
 4. Rate of interest on capital 7.25 % and redemption on capital 5.2 %.
- Whether it will be advisable to sell the property or not ?
- OR
- Q.5** Write short notes on following (Any four) **14**
1. Methods of Valuation.
 2. Use of Valuation tables.
 3. Material At Site (MAS) account.
 4. Types of value.
 5. Easement.
 6. Measurement book (MB).

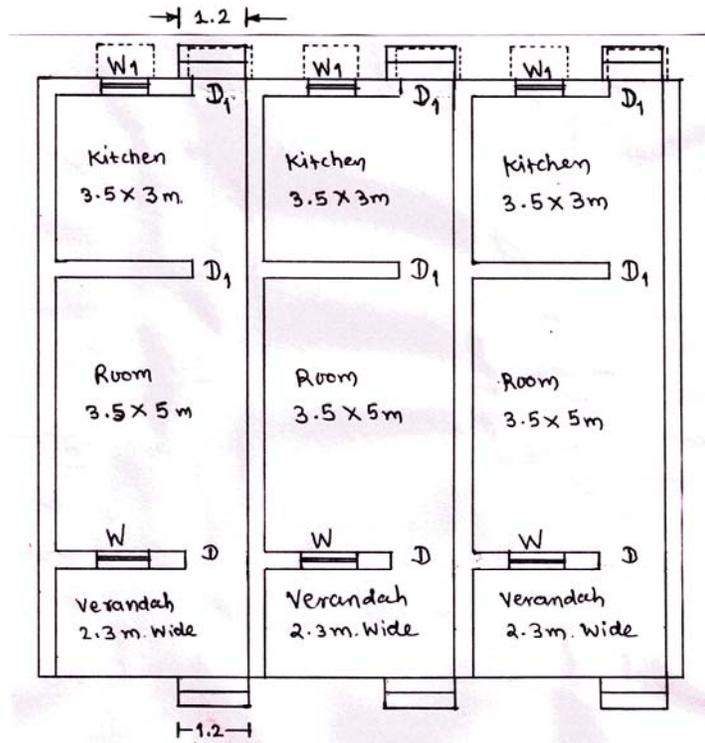
Note: Drawing is not to scale

- schedule of opening

Description	Symbol	size (m)
Door	D	1.2 x 2.1
Door	D ₁	1.0 x 2.1
Window	W	1.2 x 1.2
Window	W ₁	0.9 x 1.2



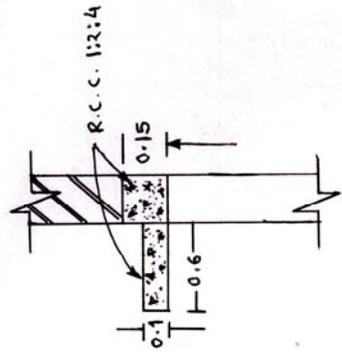
Elevation



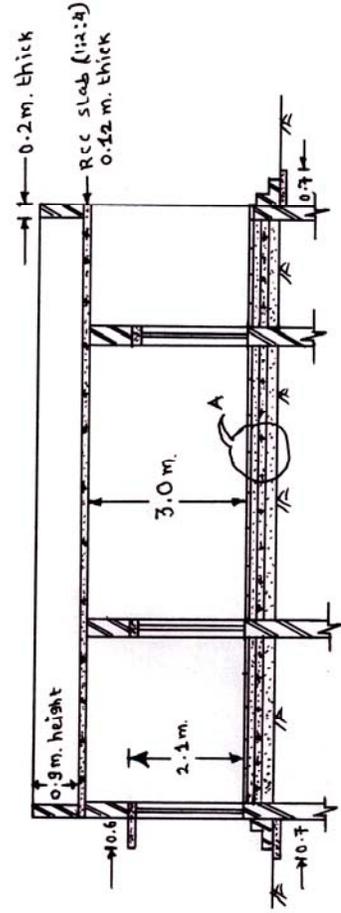
Plan

Figure 1

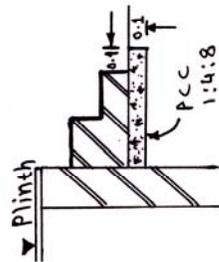
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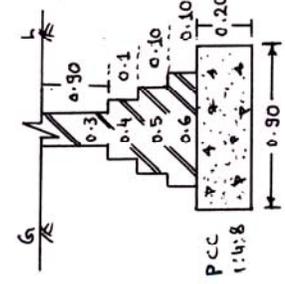
Lintel details
Beaving 10 cm.



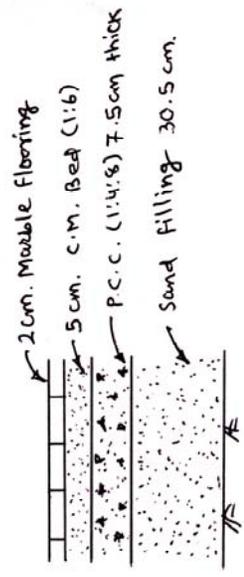
Section



Riser 15 cm.
Tread 30 cm.
Details of
Steps



Typical wall foundation



Details at A
Typical flooring

Figure. 1
