

Code No: RR 320105

Set No.

**1**

**III B.Tech. II Semester Supplementary Examinations,  
November/December -2005**

**ESTIMATING QUANTITY SURVEYING AND VALUATION  
(Civil Engineering)**

**Time: 3 hours**

**Max Marks: 80**

**PART-A**

**Answer any TWO questions from PART-A  
PART-B is compulsory  
IS-800-1984 to be permitted**

**PART-A**

**(Marks:2x16)**

- - -

1. Write down the various items of work involved in the construction of class 'C' residential building. [16]
2. Write short notes on:
  - a) Plinth area estimate.
  - b) Revised estimate.
  - c) Supplementary estimate.
  - d) Complete estimate. [4x4]
- 3.a) Under what conditions a contract may be terminated? Discuss in brief about each condition.
- b) Write short notes on
  - i) Earnest Money and
  - ii) Security Deposit [8+8]

**PART-B**

**(Marks: 48)**

4. Calculate the quantities of the following items of a residential building shown in Figure 1. Adopt centre line method.
  - a) Brick masonry in superstructure in cm 1:6.
  - b) R.C.C. roof slab in c.c.1:2:4.
  - c) 2.5cm R.C.C. flooring.
  - d) Excavation for foundation of walls.

**Contd....**



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**PART-A**

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**PART-A**

**(Marks:2x16)**

- - -

1. Write the SI units of measurements for the following items: -
  - a) Damp proof course
  - b) Brick work in super-structure
  - c) Half brick work with reinforcement
  - d) Earth work in excavation
  - e) Lime concrete in roof terracing
  - f) Sun dried brick work (vii.) Brick edging (by road side)
  - h) Cut stone work in lintel, beam etc.

[8x2]
- 2.a) Differentiate between abstract estimate and detailed estimate.  
b) Explain the advantage of centre line method over long walls and short walls method by means of a small example. 

[8+8]
3. Write notes on the following methods of valuation of buildings.
  - a) Valuation based on the cost
  - b) Depreciation method of valuation
  - c) Development method of valuation
  - d) Rental method of valuation

[16]

**PART-B**

**(Marks: 48)**

4. Estimate the quantities of the following items of a residential building shown in Figure 1 below by longwall and shortwall method.
  - a) I class brickwork in foundation with 1:4 cement mortar over 1:4:8 cement concrete.
  - b) I class brickwork in superstructure with 1:3 lime mortar.
  - c) RCC
  - d) Wood work

**Contd....**

**SINGLE ROOM QUARTERS WITH KITCHEN AND VERANDAH**

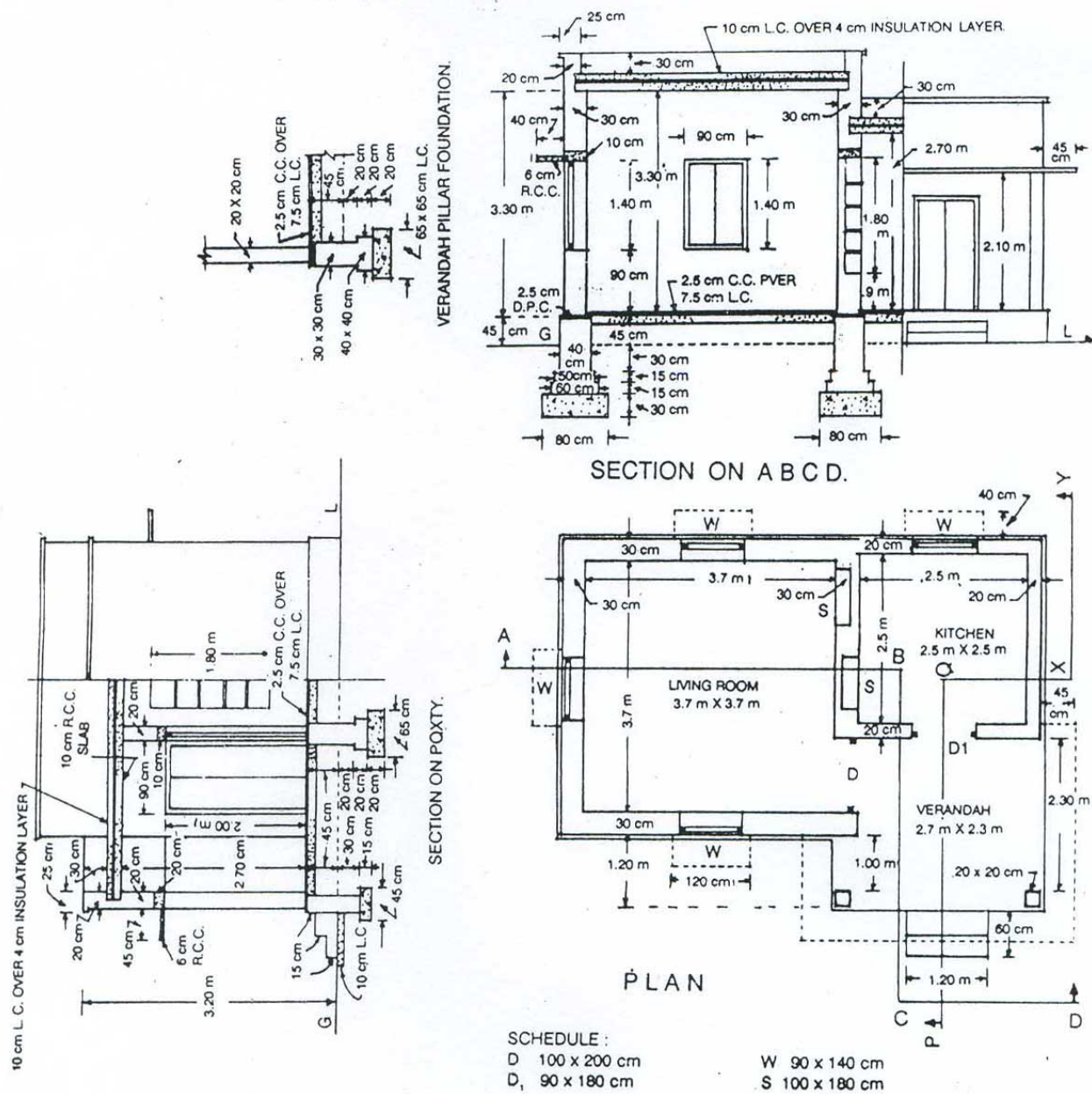


Figure: 1

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**PART-A**

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**PART-A**

**(Marks:2x16)**

- - -

1. Give standard specifications for the following items in the construction of class 'A' residential building:
  - a) Footing and Plinth
  - b) Super structure
  - c) Roofs
  - d) Damp proof course

[4x4]
2. Work out the following:
  - a) Materials required for 10 cu.m. of 1:2:4 cement concrete.
  - b) No.of cement bags required for 10 sq.m. of 2.5 cm thick cement concrete floor.
  - c) No.of cement bags required for 100 cu.m. of brick masonry in 1:6 cement mortar.
  - d) Quantity of cement, sand and composeal for 2cm thick 100 sq.m. of damp proofing course.

[4x4]
3. Explain the detailed specification about
  - a) 2.5cm (1") cement concrete floor
  - b) Patent stone floor

[8+8]

**PART-B**

**(Marks: 48)**

4. Estimate the quantities of the following items of a residential building shown in Figure 1. Adopt long wall and short wall method.
  - a) Lime concrete in foundation.
  - b) First class brickwork in lime mortar in foundation and plinth.
  - c) External plastering
  - d) Sand required in plinth filling

**Contd....**

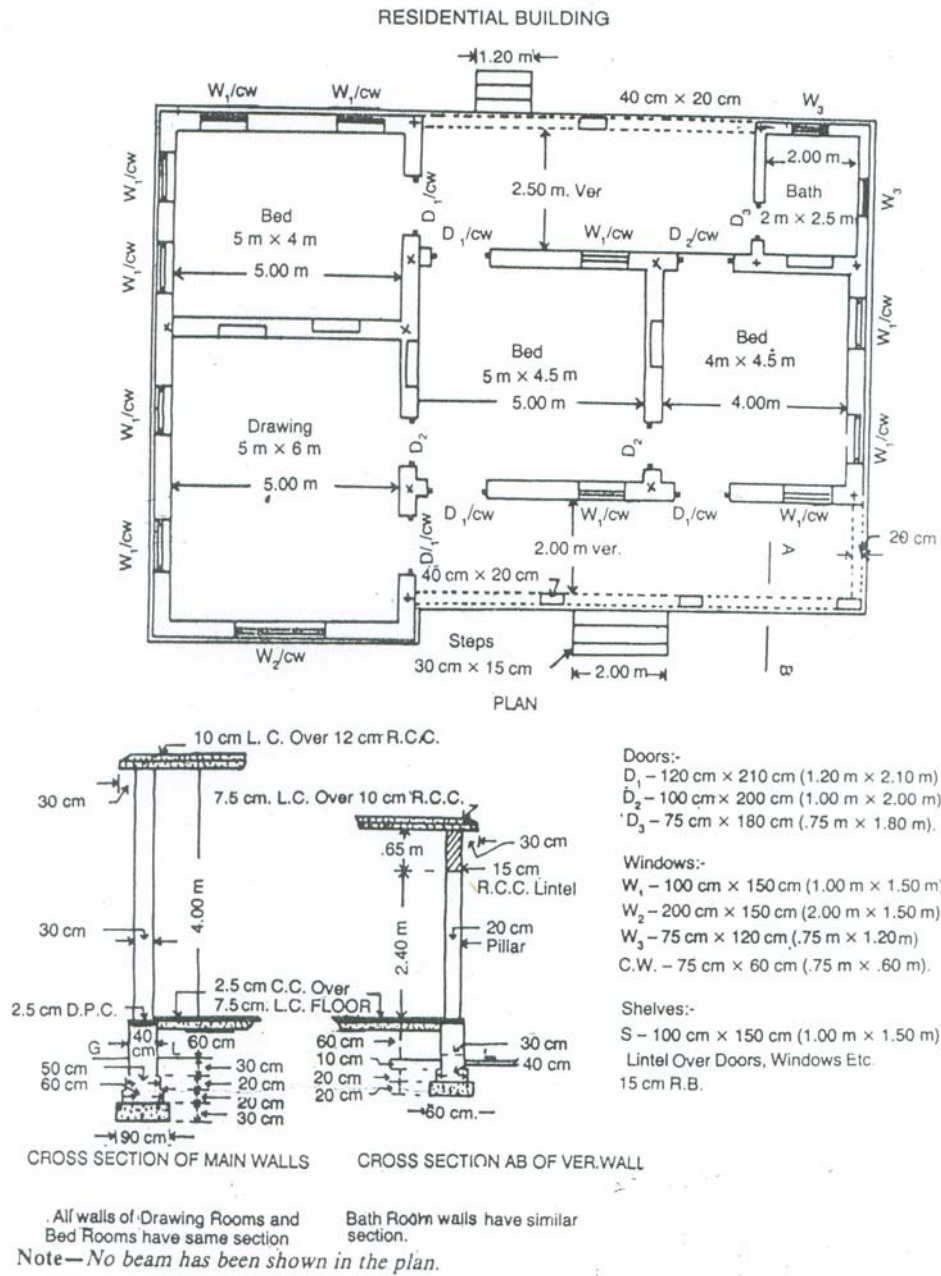


Figure: 1

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(Civil Engineering)

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PART-A

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PART-A

(Marks:2x16)

- - -

1. a) Distinguish between out-to-out method and Centre line method.  
State the merits of each.
- b) The following Figure 1 shows the plan and section of a masonry foundation. Determine the length of long and short walls at each footing by out-to-out and in-to-in method  
Length of long wall from centre to centre of wall = 4.3m  
Length of short wall from centre to centre of wall = 3.3m [8x2]

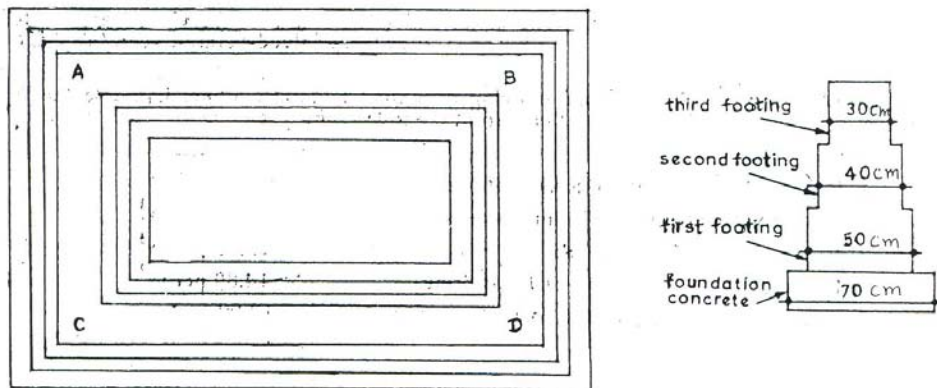


Figure: 1

2. Write short notes on the following:
  - a) Sinking fund.
  - b) Out goings.
  - c) Depreciation.[16]
3. How do you specify the centering and shuttering work should be suitable for building work. Give the detailed specification. [16]

Contd....

**PART-B****(Marks: 48)**

4. Prepare a detailed estimate for the following items of work for the building given in the line diagram. (Figure: 2)
- Earthwork in excavation.
  - Internal plastering of walls and ceiling.
  - Brick work in footings, plinth and super structure

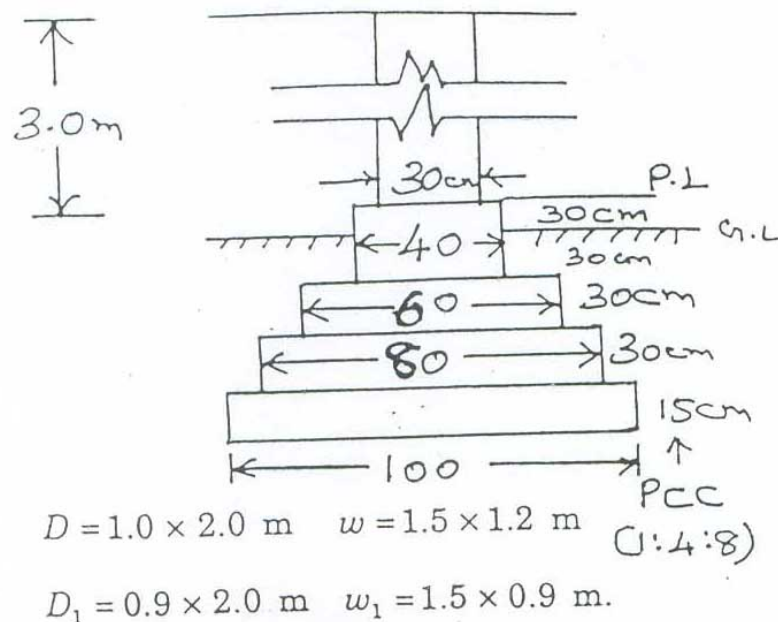
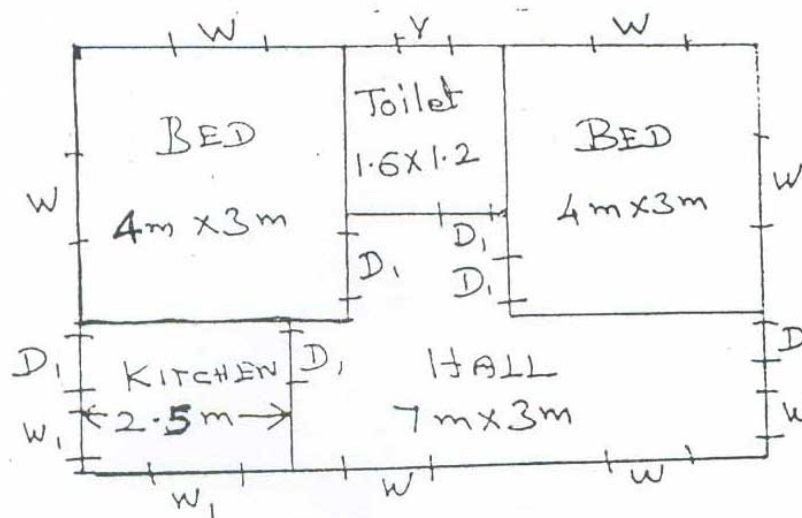


Figure: 2

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