

**R07**

**Set No: 1**

Code No: V3205

III B.Tech. II Semester Supplementary Examinations, November/December - 2012

**ESTIMATING AND COSTING**

(Civil Engineering)

Time: 3 Hours

Max Marks: 80

Part- A is Compulsory

Answer any three questions from the Part –B

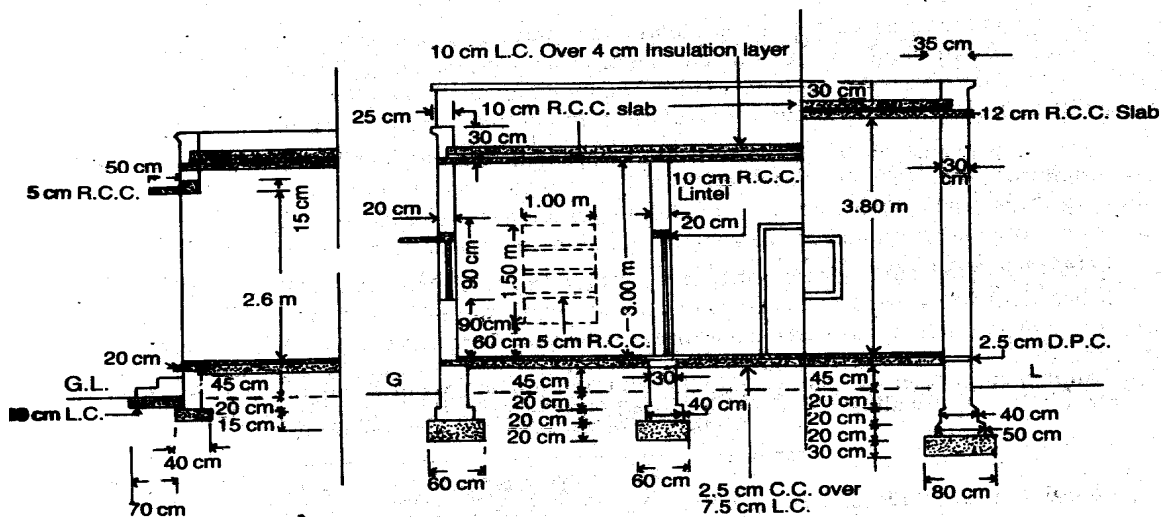
\*\*\*\*\*

Part- A

1. Estimate the required quantities for the following data from the given plan by any one method:

**SITE OFFICE BLOCK**

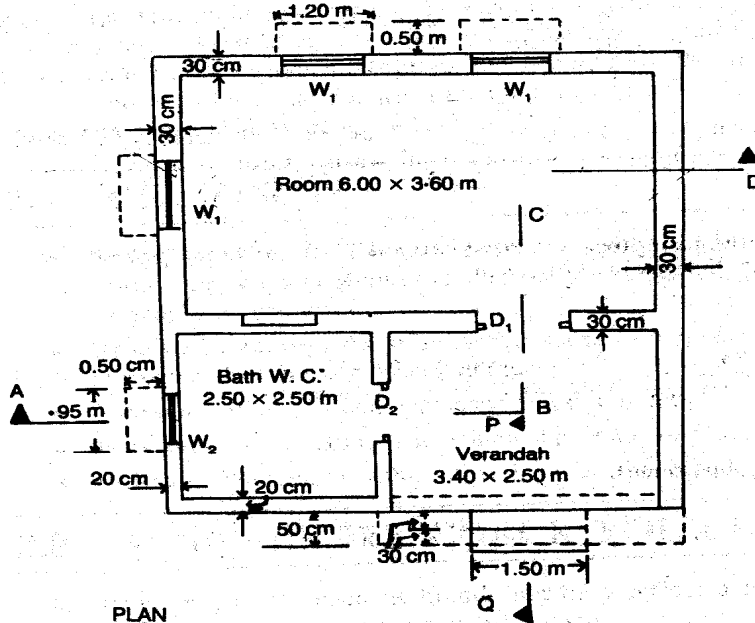
157



SECTION-PQ

SECTION ELEVATION ON ABCD

- Doors
- D<sub>1</sub> - 1.20 × 2.00 m
- D<sub>2</sub> - 0.90 × 1.80 m
- Windows
- W<sub>1</sub> - 1.00 × 1.20 m
- W<sub>2</sub> - 0.75 × 0.90 m
- Shelf - 1.00 × 1.50 m
- Steps
- Treads - 30 cm
- Rise - 15 cm



PLAN

Fig. 3-19

CHOWKHATS — DOORS = 8 × 12 cm. WINDOWS = 8 × 10 cm.

Code No: V3205

**R07****Set No: 1**

- Earth work excavation in foundation
- CC in foundation
- I class Brickwork in foundation ( CM of 1:4 )
- II class Brick work in super structure
- RCC
- Quantity of Steel (50)

**Part- B****(3x10=30)**

2. What is contract document and explain it?
3. What are the brief specifications of II class building?
4. What do you understand by valuation and explain in detail.
5. List and explain any four general items of work involved in the estimation for a building with its process calculation
6. Perform Rate analysis for the following:
  - Earth work in excavation for  $100\text{m}^3$  and the cost of  $1\text{cu.m} = 350/-$
  - I class brick work in CM (1:6) for  $10\text{m}^3$

\*\*\*\*\*

**R07**

**Set No: 2**

Code No: V3205

III B.Tech. II Semester Supplementary Examinations, November/December - 2012

**ESTIMATING AND COSTING**

(Civil Engineering)

Time: 3 Hours

Max Marks: 80

Part- A is Compulsory

Answer any three questions from the Part –B

\*\*\*\*\*

Part- A

- Estimate the required quantities for the following data from the given in plan by any one method:

80 SINGLE ROOM BUILDING WITH FRONT VERANDAH

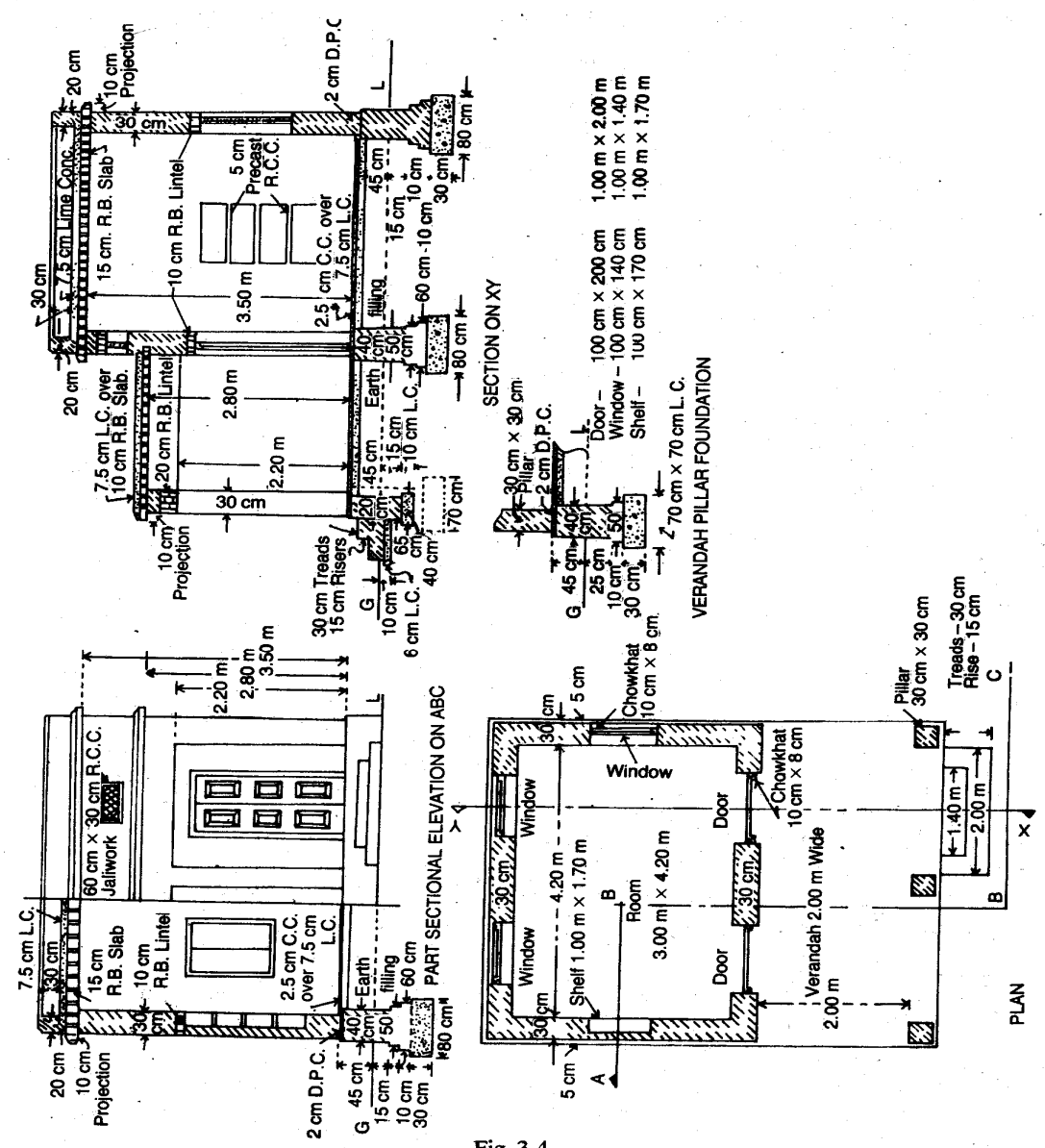


Fig. 3-4

**Code No: V3205****R07****Set No: 2**

- Earth work excavation in foundation
- I class Brickwork in foundation ( CM of 1:4 )
- 2.5cm thick DPC
- Flooring with CM(1:4)
- White wash

(50)

Part- B

(3x10=30)

2. Discuss the main items of work in Estimation of a building.
3. Explain the principle and procedure for the earthwork of roads and canals.
4. Explain the conditions of the contract in detailed.
5. Define valuation? Explain the purpose of valuation.
6. What is specification of a building? What are the types of specification and differentiate them?

FirstRanker

**R07**

**Set No: 3**

Code No: V3205

III B.Tech. II Semester Supplementary Examinations, November/December - 2012

**ESTIMATING AND COSTING**

(Civil Engineering)

Time: 3 Hours

Max Marks: 80

Part- A is Compulsory

Answer any three questions from the Part –B

\*\*\*\*\*

Part- A

1. Estimate the required quantities for the following data from the given plan by any one method:

**ESTIMATING AND COSTING**

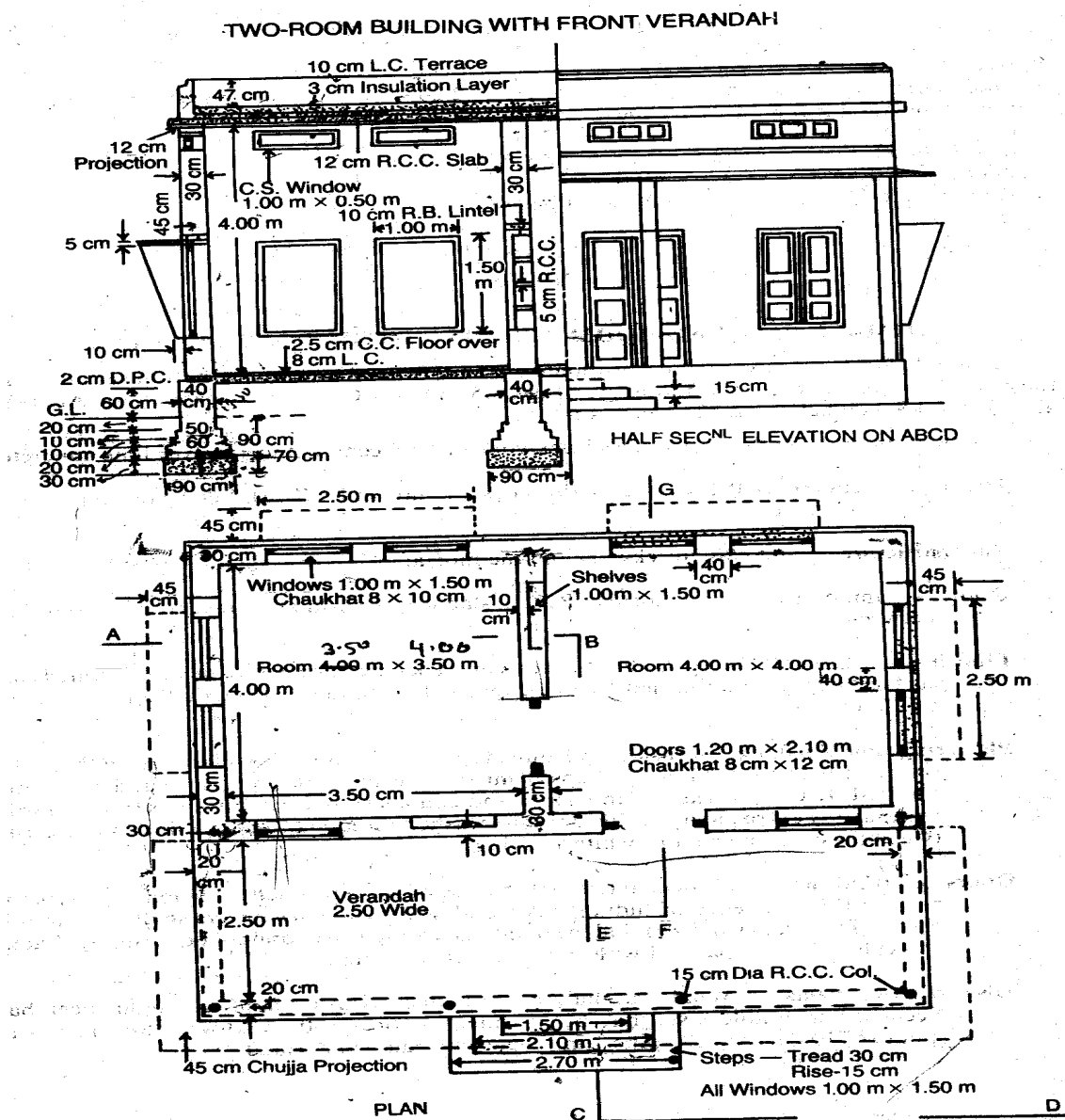


Fig. 3-5

Code No: V3205

**R07****Set No: 3**

- Earth work excavation in foundation
  - CC in foundation
  - I class Brickwork in foundation ( CM of 1:4 )
  - II class Brick work in super structure
  - 12mm plastering
- (50)

**Part- B****(3x10=30)**

2. What is the Approximate method of Estimation and Explain?
3. Distinguish contract and contractor and explain the types of contract.
4. What are the standard specifications for the construction of buildings and explain them in brief?
5. What is Depreciation? What are the different methods of calculating depreciation?
6. Explain any four of the following:
  - Market value
  - Book value
  - Rateable value
  - Years purchase
  - Sinking fund

\*\*\*\*\*

**R07**

**Set No: 4**

Code No: V3205

III B.Tech. II Semester Supplementary Examinations, November/December - 2012

**ESTIMATING AND COSTING**

(Civil Engineering)

Time: 3 Hours

Max Marks: 80

Part- A is Compulsory

Answer any three questions from the Part –B

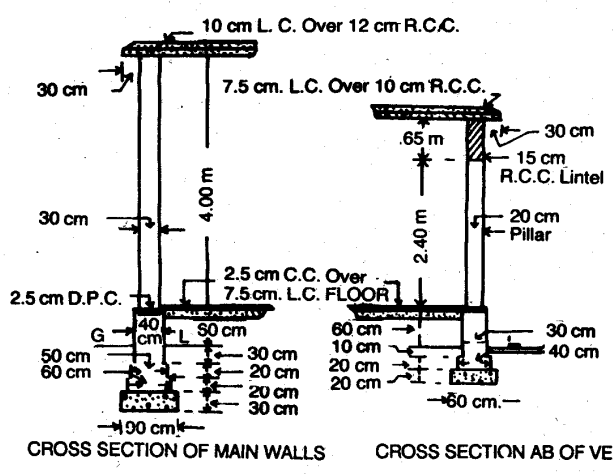
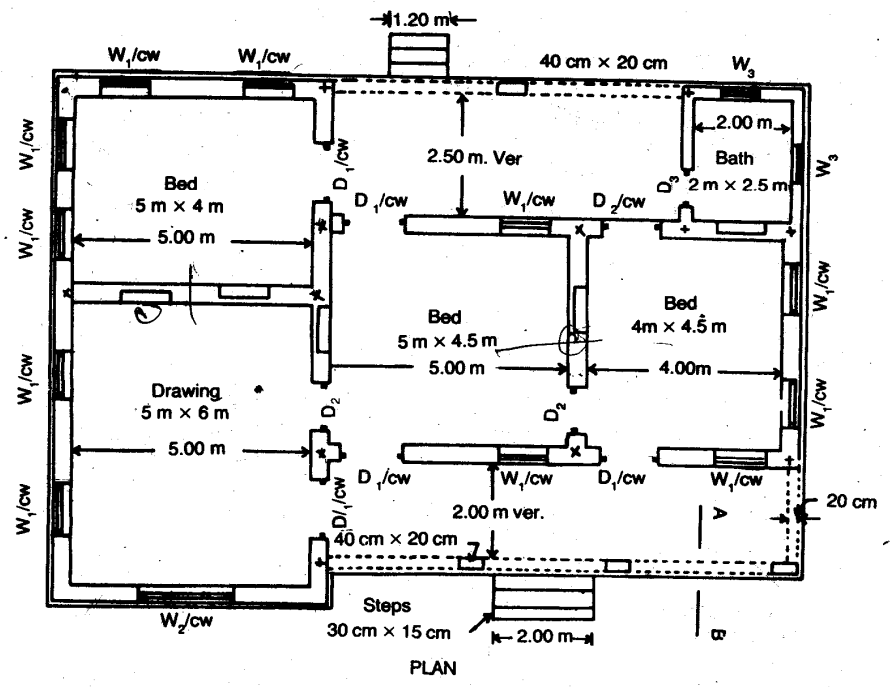
\*\*\*\*\*

Part- A

1. Estimate the required quantities for the following data from the given plan by any one method:

38

**ESTIMATING AND COSTING  
RESIDENTIAL BUILDING**



- Doors:-**  
 D<sub>1</sub> – 120 cm × 210 cm (1.20 m × 2.10 m)  
 D<sub>2</sub> – 100 cm × 200 cm (1.00 m × 2.00 m)  
 D<sub>3</sub> – 75 cm × 180 cm (.75 m × 1.80 m).
- Windows:-**  
 W<sub>1</sub> – 100 cm × 150 cm (1.00 m × 1.50 m)  
 W<sub>2</sub> – 200 cm × 150 cm (2.00 m × 1.50 m)  
 W<sub>3</sub> – 75 cm × 120 cm (.75 m × 1.20 m)  
 C.W. – 75 cm × 60 cm (.75 m × .60 m).
- Shelves:-**  
 S – 100 cm × 150 cm (1.00 m × 1.50 m)  
 Lintel Over Doors, Windows Etc.  
 15 cm R.B.

All walls of Drawing Rooms and Bed Rooms have same section  
 Bath room walls have similar section.  
**Note— No beam has been shown in the plan.**

Fig. 2-7

Code No: V3205

**R07****Set No: 4**

- Earth work excavation in foundation
- I class Brickwork in foundation ( CM of 1:4 )
- 2.5cm thick DPC
- Flooring with CM(1:4)
- Sand filling in basement

(50)

Part- B

(3x10=30)

2. List and explain any four general items of work involved in the estimation for a building with its process calculation.
3. What is valuation? Explain the different methods of valuation.
4. What are the brief specifications of I class building?
5. Explain the conditions of the contract in detailed.
6. Perform Rate analysis for the following quantities:
  - CC (1:4:8) for  $10\text{m}^3$
  - 2 coats of White wash for  $100\text{m}^2$

\*\*\*\*\*

FirstRanker