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**Question Paper Code : 60264**

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2016.

Seventh Semester

Civil Engineering

CE 2402/CE 1401/CE 72/10111 CE 702 — ESTIMATION AND QUANTITY  
SURVEYING

(Regulations 2008/2010)

(Common to PTCE 2402/10111 CE 702 – Estimation and Quantity Surveying for  
B.E. (Part-Time) Fifth/Sixth Semester – Civil Engineering – Regulations 2009/2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Write a brief note on the purpose of an approximate estimate.
2. Define the term plinth area method.
3. Define soling.
4. What is the unit for brick masonry and painting of roofs?
5. Write about analysis of rate.
6. Differentiate dismantling and demolition.
7. What is meant by capitalised value?
8. What is depreciation?
9. Enumerate the documents that accompany a report.
10. Write the principle for report preparation?

PART B — (5 × 16 = 80 marks)

11. (a) Prepare a detailed estimate of a shop building consisting of three shops with front verandah from the given drawing Fig. 11(a) for the following.
- (i) Earthwork in excavation in foundation. (5)
  - (ii) 1<sup>st</sup> class brick – work in 1 : 6 cement mortar in foundation and plinth. (5)
  - (iii) 12 mm thick cement plastering 1 : 6 in walls. (3)
  - (iv) White washing 3 coats inside. (3)

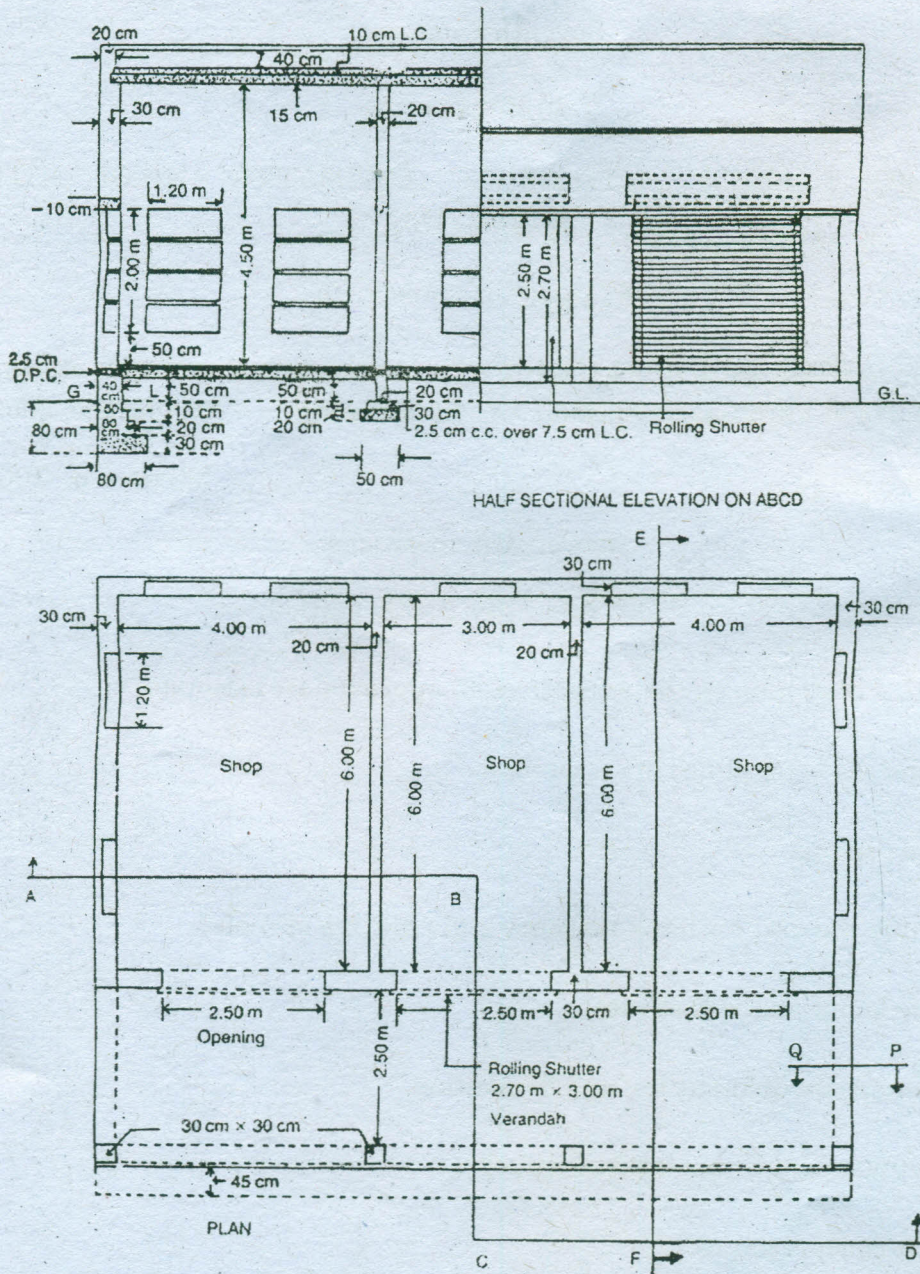


Fig. 11(a)

Or

- (b) The plan and sectional elevation of a building are given in Fig. 11(b). Estimate the quantities of the following items of work of the building.
- (i) Lime concrete in foundation. (4)
  - (ii) R.C.C. work in floor slabs, lintels, sunshades. (10)
  - (iii) Steel reinforcement bars in R.C.C at 1%. (2)

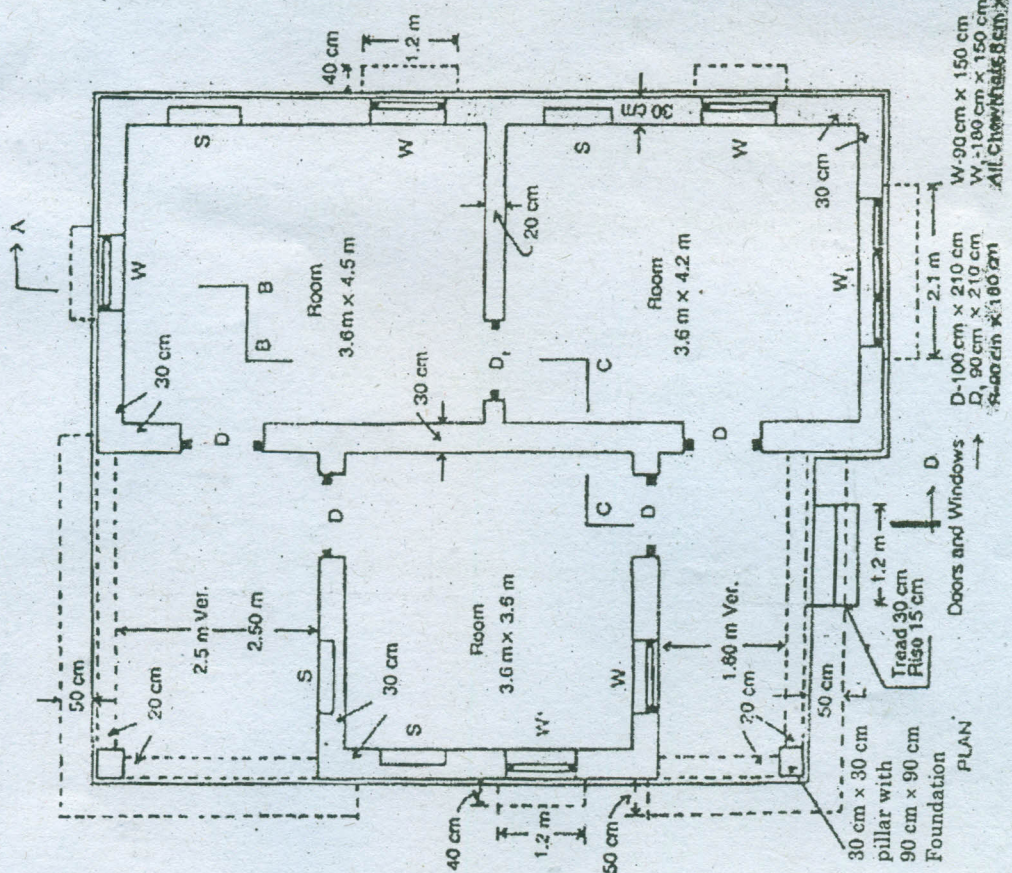
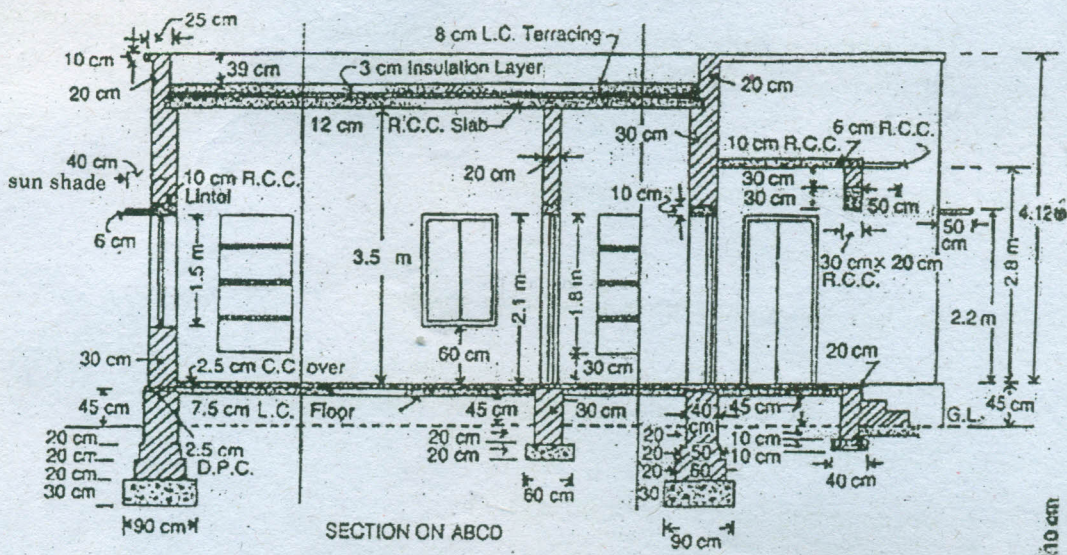


Fig. 11(b)

12. (a) (i) How will you provide a detailed estimate for the construction of open well? (8)  
(ii) Discuss about estimating of a septic tank. (8)

Or

- (b) Describe a detailed estimate with specifications, quantity measurement for RCC retaining wall constructed along a river bed.

13. (a) Explain the types of contracts in detail.

Or

- (b) Explain the legal requirements for tenders.

14. (a) A owner occupied property is required to be valued for the wealth tax purpose on land and building. The following particulars are available. Find the present value of the property. (16)

Value of the land = Rs. 4,00,000.00

Cost of the building to put up such a building at present = Rs. 10,00,000

Age of the building = 40 years

Estimate cost of repairs = Rs. 50,000

Depreciation to be allowed for the building = 0.75 % per annum.

Or

- (b) (i) Explain different forms of value (8)  
(ii) Discuss about a freehold property. (8)

15. (a) Write a model report on estimation of roads.

Or

- (b) Write a model report on estimation of a residential building.