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Question Paper Code : 41018

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2013.

Seventh Semester

Civil Engineering

080100049 — ESTIMATION AND VALUATION

(Regulation 2008)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is the unit of measurement for the following items
 - (a) RCC work
 - (b) Brick work
 - (c) Flooring work
 - (d) Steel.
2. What is centre line method?
3. Define plinth area estimate
4. How do you calculate the quantity of brick work in circular steps
5. What is mean by analysis of rates?
6. What are the types of contracts?
7. Write down the specifications for DPC for a residential building.
8. Distinguish between gross income and net income from a building
9. Define capitalized value.
10. What are the types of depreciation method?

PART B — (5 × 16 = 80 marks)

11. (a) Explain in detail the different types of estimates.

Or

(b) Take out the quantities for the following items from the fig. 11 b.

- (i) Earthwork in foundations. (4)
- (ii) Concrete in foundations. (4)
- (iii) Brick work in foundation and plinth in 1:6 cement mortar. (4)
- (iv) 2 cm damp proof course at plinth level. (4)

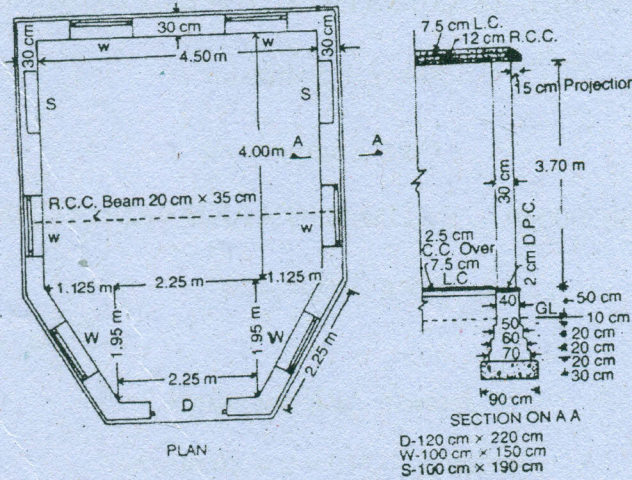


Fig. 11(b)

12. (a) The plan and section elevation of a building are given in fig 12 (a). Estimate the quantities of the following of items of work of the building.

- (i) Earth work in excavation in foundation.
- (ii) RCC work in roof slabs, lintels and sunshades
- (iii) First class brick work in CM 1:6 in super structure

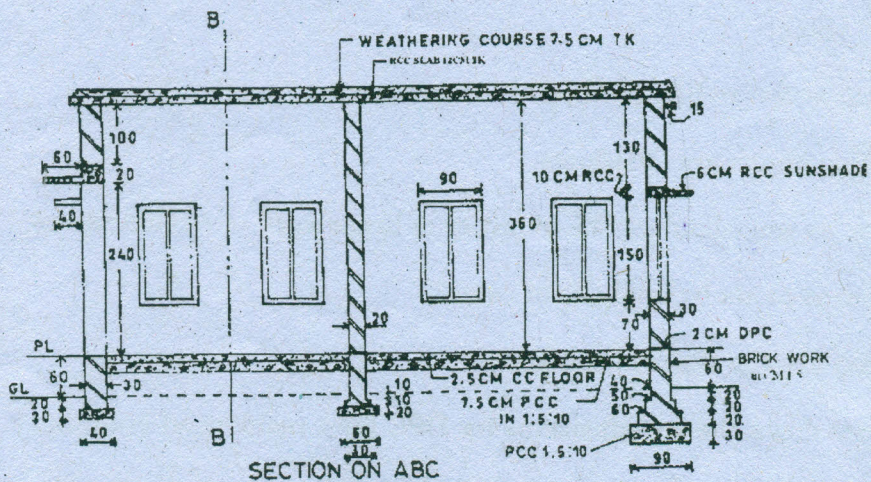
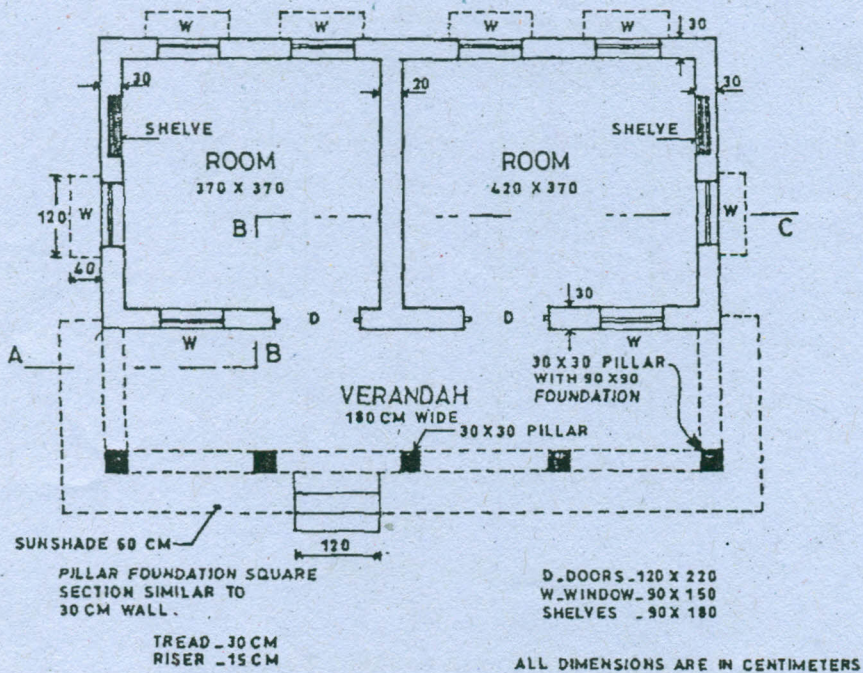


Fig. 12(a)

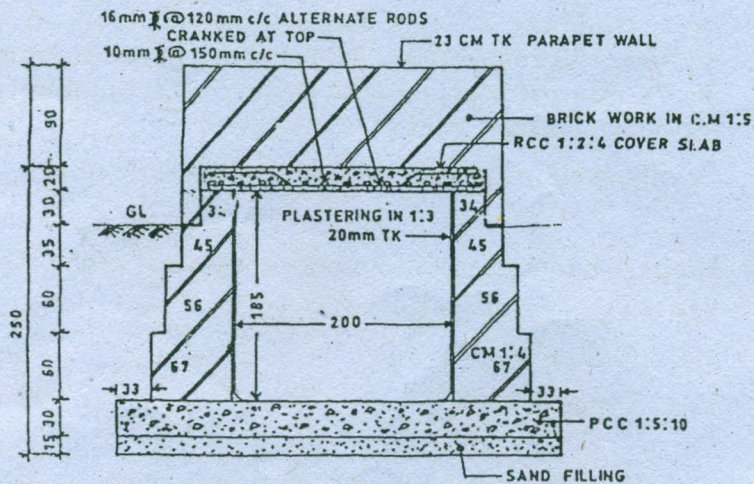


PLAN

Fig. 12 (a) (Contd....)

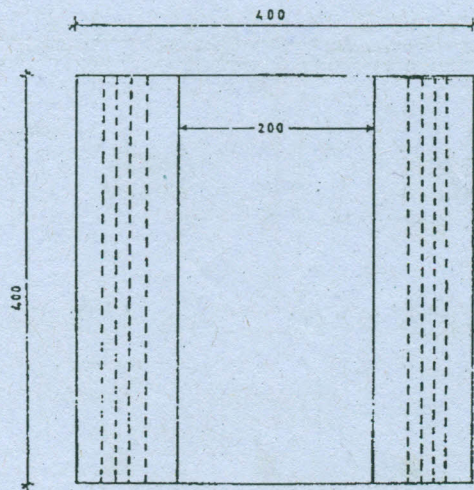
Or

- (b) (i) Plastering internal and external surface
 - (ii) PCC 1:5:10 in foundation
 - (iii) Brick work CM 1:5 in foundation.
13. (a) The plan and sectional elevation of a box culvert are given in fig. 13 (a). Estimate the quantities of the following of items of work of the culvert.
- (i) Earth work excavation
 - (ii) Brick work in CM 1:4 in abutments
 - (iii) RCC cover slab 1:2:4.



Cross section of Box culvert

Fig. 13 (a)



Plan

Fig. 13 (a) (Contd....)

Or

- (b) (i) Brick work in CM 1:5 in parapet wall.
(ii) PCC 1:5:10
(iii) Plastering in CM 1:320mm thick and CM 1:5 12mm thick.
14. (a) Assuming current schedule of rates for materials and labour, prepare data for the following items of work.
(i) Brick work in CM 1:5 in foundation for- 1 cum.
(ii) Plastering the walls with cement mortar 1:5 — 12mm thick for — 10 sqm.

Or

- (b) (i) What are the types of contracts and explain in detail.
(ii) Write specifications for plain cement concrete 1:5:10 in foundation.
15. (a) (i) cost of land: Rs.5, 00,000.00, cost of building 16, 00,000, expected life of building 70 years. Returns expected- 5% on land and 8% on building. Annual repair of 1% on the cost of building. Sinking fund on 4% interest basis on 90% of the cost of building. Other outgoing 30% of the return from the building.
(ii) Briefly explain the different methods of valuation.

Or

- (b) (i) Prepare a report on estimate for construction of a Box Culvert. (8)
(ii) Write short notes on the following.
(1) Escalation (4)
(2) Types of lease. (4)