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Question Paper Code : 73264

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2017.

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)

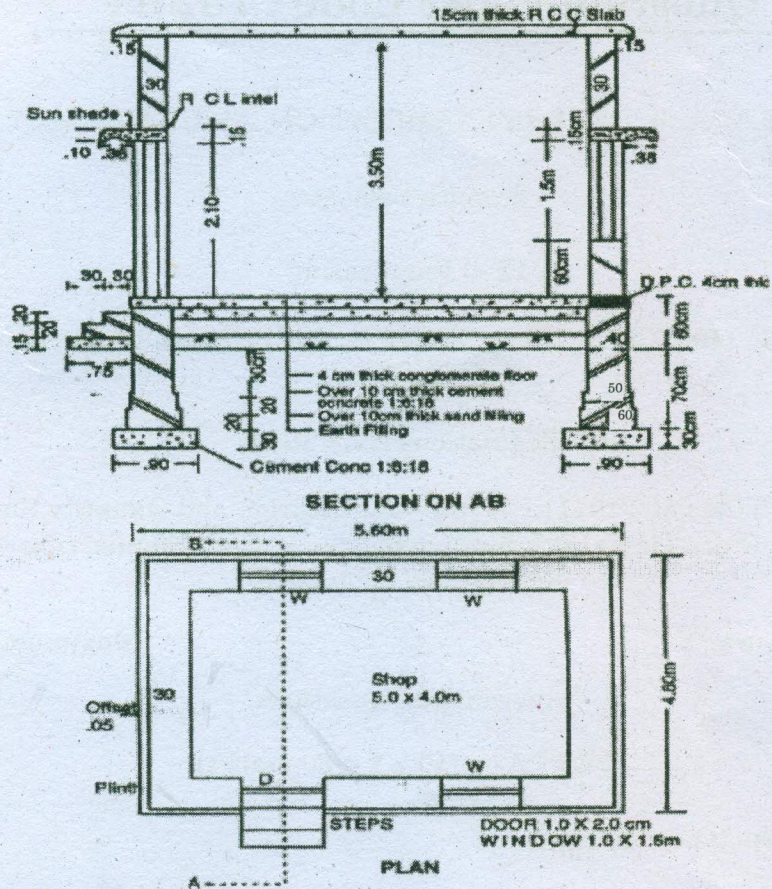
1. Mention the types of Arches.
2. Write the importance of Estimation.
3. List out various Sanitary Fittings.
4. Differentiate Syphon and Aqueduct.
5. Define: Earnest money Deposit.
6. Define: Rate Analysis.
7. What do you meant by Escalation?
8. Define: Scrap value.
9. Give short notes on Tube wells.
10. Write the principles of report writing.

PART B — (5 × 16 = 80 marks)

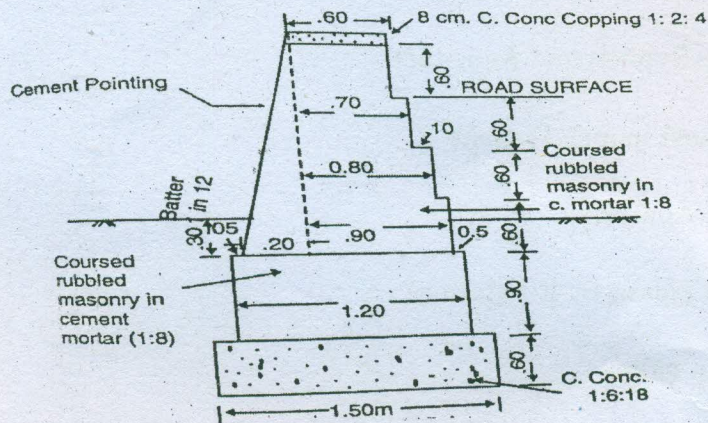
11. (a) Explain in detail the various types of Estimate and the various methods of Estimation. (8 + 8)

Or

- (b) Prepare a detailed estimate of a Shop shown in figure below. (16)



12. (a) Calculate the quantities of all items of work for the construction of a retaining wall for a length of 20 metres shown below. (16)



Or

- (b) Write in detail about the specifications and estimation of Culverts. (16)

13. (a) Write short notes on the following:
- (i) Arbitration and Settlement (4)
 - (ii) Contract Document and Types of Contract (8)
 - (iii) Tender Notice. (4)

Or

- (b) Write the detailed specification of the following:
- (i) Earth work in Foundation (4)
 - (ii) PCC 1:5:10 in Foundation (4)
 - (iii) Brick Work in Cement Mortar 1:6 in Super Structure (4)
 - (iv) Damp Proof Course. (4)

14. (a) (i) Write in detail about the methods of Valuation. (10)
- (ii) An old shop in the main market has been purchased by a person at a cost of Rs. 20,000/-. Work out the amount of annual sinking fund at 3% interest assuming future life of the building as 15 years and scrap value of the building as 10% of the cost of purchase. (6)

Or

- (b) (i) The capitalized cost of a building is Rs. 1 lakh, including all fittings of First class construction. If the rate of interest is 6%, calculate net return from the property. Assume out- goings as 15% on gross income. (8)
- (ii) Calculate the annual rent of a building with the following data: (8)

Cost of Land = Rs. 2,00,000/-

Cost of building = Rs. 8,00,000/-

Estimate life = 80 Years

Return expected = 5% on land 6% on building

Annual repairs are expected to be 0.8% of the cost of construction and other out goings will be 25% of the gross rent. There is no proposal to set up a sinking fund.

15. (a) Give a detailed Report on the Estimate of a two bed room Residential building with water supply and sanitary installations. (16)

Or

- (b) Give a detailed report on the estimate of Modern Bituminous and cement concrete roads. (16)