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Question Paper Code : X 60263

B.E./B.Tech. DEGREE EXAMINATIONS, NOV./DEC. 2020

Seventh Semester

Civil Engineering

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

(Regulations 2008/2010)

[Common to PTCE 2402/10111CE702 – 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. What are the different types of Approximate Estimate ?
2. What is mean by Centre line method ?
3. Define aqueduct.
4. Write the importance of soak pit.
5. Write about analysis of rate.
6. Differentiate dismantling and demolition.
7. Write the necessity of valuation.
8. Define Mortgage.
9. What is the importance of report preparation ?
10. Why is valuation necessary ?



PART – B

(5×16= 80 Marks)

11. a) i) List the general rules of measurement. (6)
 ii) Explain the deductions and additions to be applied in the case of estimation of plastering. (10)

(OR)

- b) Prepare an estimate of the following quantities for the building shown in Fig. 11 (b).
 i) Excavation.
 ii) PCC for footing
 iii) First class brick masonry upto plinth
 iv) Roof slab.

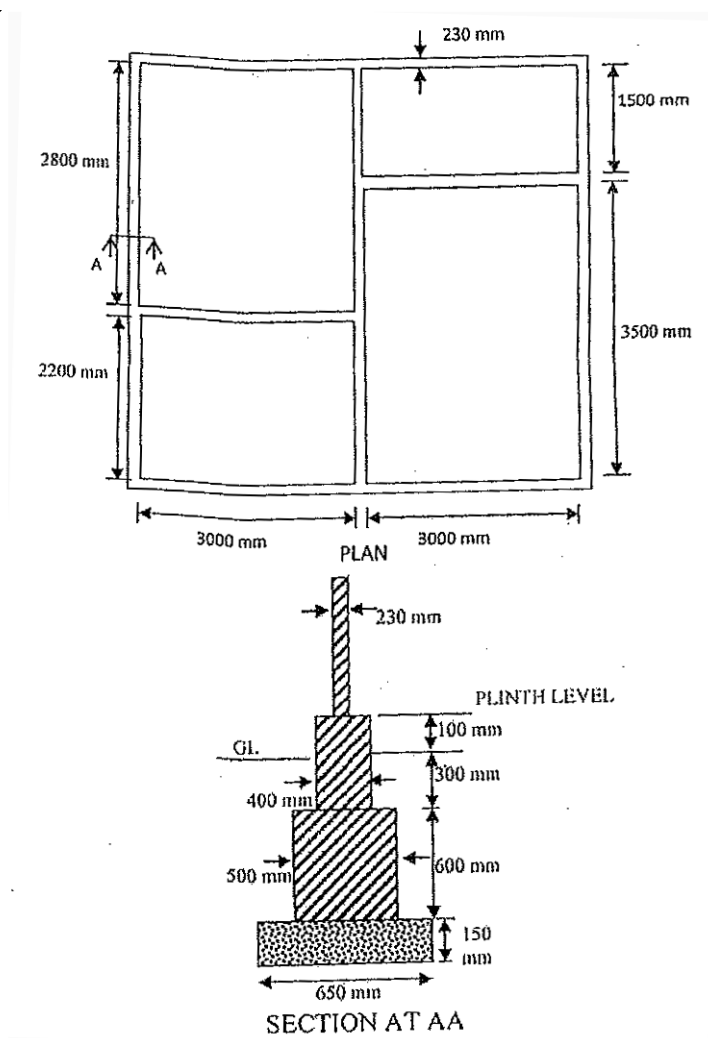


Fig. 11 b)



12. a) Determine the quantities of following works in the Septic tank and Soak pit shown in fig. 1. (4×4)
- i) Earth work excavation for both.
 - ii) Plain cement concrete 1:4:8
 - iii) Brickwork in CM 1: 5 in Septic tank.
 - iv) RCC.1:2:4 in cover slab of Septic tank.

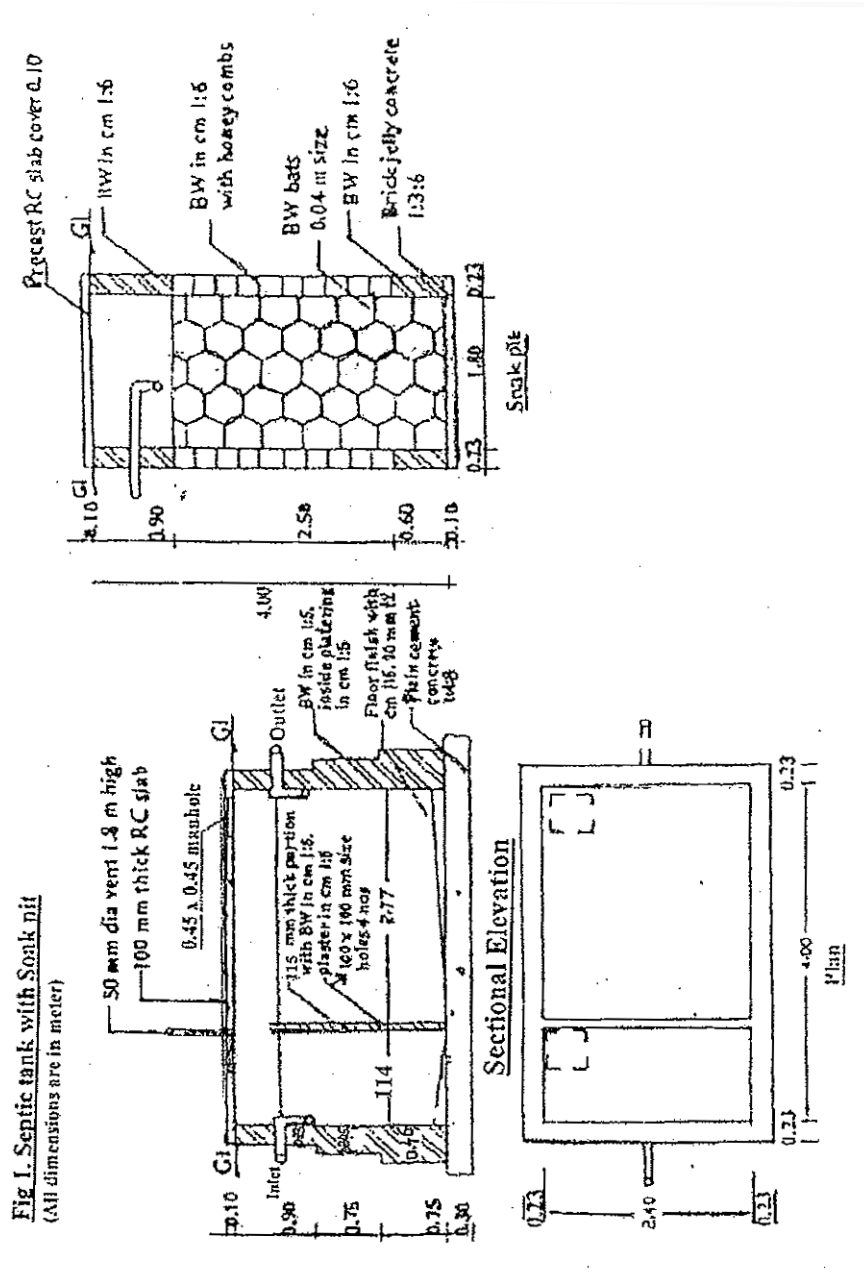


Fig. 12 a)

(OR)



- b) Prepare the detailed estimate of quantities for the following items for a 100 m length of Retaining wall shown in fig .2 (16)
- i) Brickwork in CM 1:4.
 - ii) Plain cement concrete 1:4:8.
 - iii) Number of Bricks.
 - iv) Number of Cement bags.

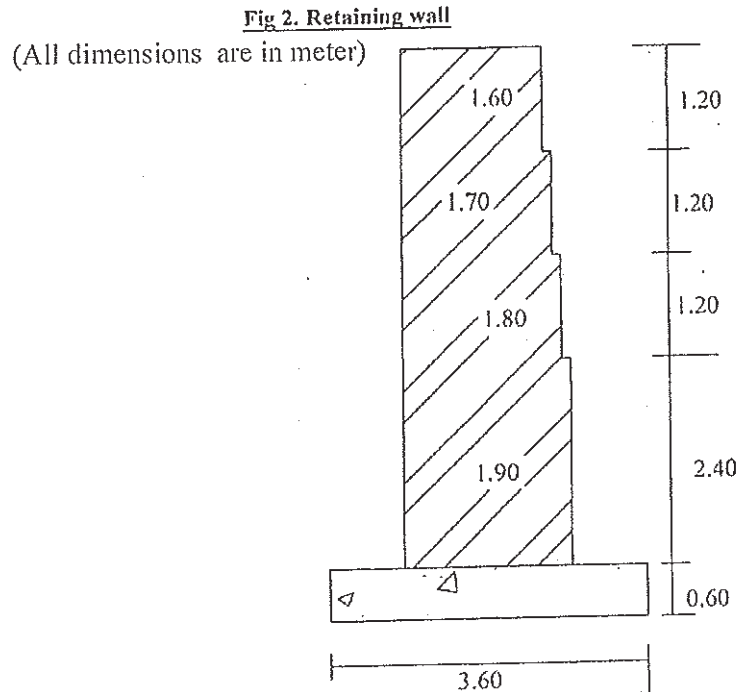


Fig. 12 b)

13. a) i) Explain different types of specifications. (8)
- ii) Draft specification for 1st class brick work in C.M. 1 :6. (8)
- (OR)
- b) i) What are standard specifications ? (8)
- ii) Describe different types of contracts. (8)
14. a) Discuss the importance of valuation.
- (OR)
- b) Explain the steps involved in the calculation of standard rent for buildings.
15. a) Briefly explain the report preparation for estimation of residential building. (16)
- (OR)
- b) Describe the principles for the preparation of water supply scheme. (16)