15/12/2022

Reg. No.

| Question Paper Code | 11467 |

B.E. / B.Tech. - DEGREE EXAMINATIONS, NOV/DEC 2022
Seventh Semester
Civil Engineering
CE8701 - ESTIMATION, COSTING AND VALUATION ENGINEERING
(Regulations 2017)

Duration: 3 Hours

Max. Marks: 100

PART - A (10 × 2 = 20 Marks)
Answer ALL Questions

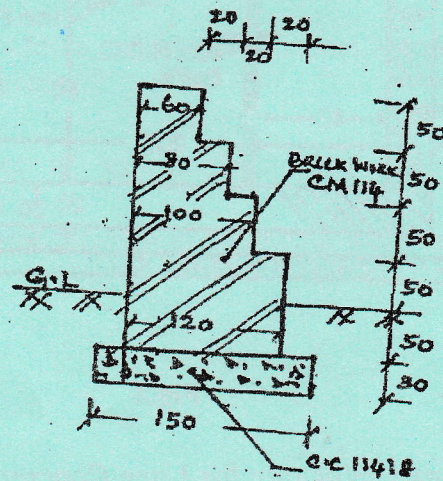|		Marks, K-Level, CO
1.	Define revised estimate and supplementary estimate.	2,K1,CO1
2.	Why sloping roof is preferred in hilly areas than slabs?	2,K2,CO1
3.	What is schedule of rates?	2,K2,CO2
4.	Write down the duties of the quantity surveyor.	2,K2,CO2
5.	List the objectives of specification.	2,K1,CO4
6.	What is security money deposit?	2,K1,CO4
7.	Define arbitrator.	2,K1,CO5
8.	What is termination of contract?	2,K2,CO5
9.	What is capitalized value?	2,K2,CO6
10.	Define depreciation.	2,K1,CO6

PART - B (5 × 13 = 65 Marks)
Answer ALL Questions

11. a)

Fig.1

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create

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Prepare a detailed estimate of quantities for following items for a 20m length of retaining wall shown in Fig.1

i) Brick work in CM 1:4   7 K2,CO1

ii) Plain cement concrete 1:4:8   6 K2,CO1

OR

b) Calculate the following quantity of septic tank shown in fig 2

i) Earthwork in excavation.   5 K2,CO1

ii) RCC quantity.   5 K2,CO1

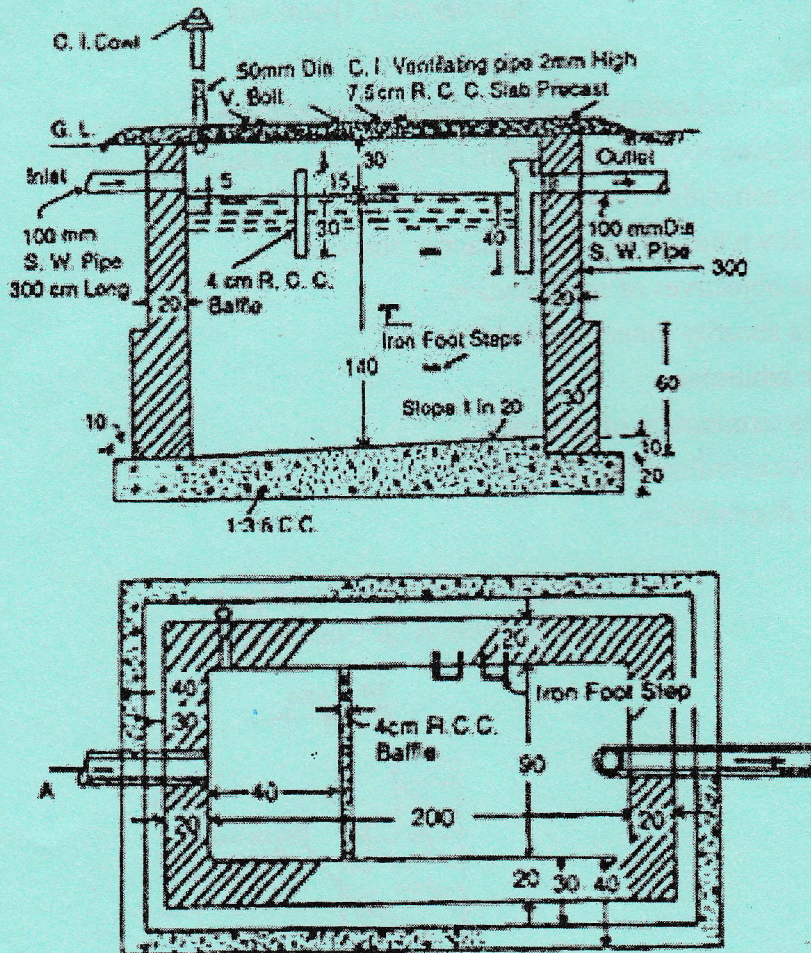iii) Cement concrete in foundation.   3 K2,CO1

Fig.2

12. a) Prepare the analysis of rate for Lime Concrete in foundation with 40mm brick ballast per cu.m. Assume the required data.   13,K2,CO2

OR

b) Work out the quantities of material required for following works
   i) First class brick work in CM 1:5   7 K2,CO2
   ii) Plastering in CM 1:6, 12mm thick -10m^2 6 K2,CO2

13. a) Describe about arbitration and legal Requirements.   13,K2,CO4

OR

b) Explain sequential procedure of tender process.   13,K2,CO4

14. a) i) Explain Lumpsum contract and labour contract.   7, K2,CO5

   ii) Explain termination of contract.   6, K2,CO5

OR

b) Explain the content of a contract document.   13, K2,CO5

15. a) Write Short note on the following terms:
   i) Sinking fund
   ii) Outgoings   5 K2,CO6
   iii) Capitalized value, Price and Cost   5 K2,CO6
                                              3 K2,CO6

OR

b) Calculate the annual rent of building with the following data. Cost of   13,K2,CO6
   land is Rs. 4,50,000.00, cost of building is Rs. 7,75,000. Estimated life
   of building is 80 years, return expected is 4% on land and 8% on
   building. Annual repairs are expected to be 0.9% of the cost of
   construction and other outgoings will be 35% of gross rent. There is no
   proposal to setup sinking fund.

PART - C (1 × 15 = 15 Marks)

16. a) What are the points to be considered in report writing and explain the   15,K2,CO3
    residential building report?

OR

b) i) Write the types of specification. Give their advantages and   8,K3,CO3
   disadvantages.
   ii) Write detailed specification of following work-cement concrete in   7,K3,CO3
   foundation.

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create   **11467**

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