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Reg. No. : | | | | | | | | | | |

Question Paper Code: 57102

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2019

Seventh Semester

Civil Engineering

15UCE702 - ESTIMATION COSTING AND VALUATION ENGINEERING

(Regulation 2015)

Answer ALL Questions

PART -A (10 X 1=10 marks)

1. The main factor to be considered while preparing a detailed estimate, is CO1-R

   (a) Quantity of the materials (b) Availability of materials

   (c) Transportation of materials (d) All the above

2. The rate of payment is made for 100 cu m (per % cu m) in case of CO2- R

   (a) Earth work in excavation (b) Rock cutting

   (c) Excavation in trenches for foundation (d) All the above

3. Brick walls are measured in sq. m if the thickness of the wall is CO3- R

   (a) 10 cm (b)15 cm (c) 20cm (d) None of the above

4. The cross-sections for a highway is taken at CO4- R

   (a) Right angle to the centre line (b) 30 metres apart

   (c) Intermediate points having abrupt change in gradient (d) All of the above

5. Value of year's purchase is adopted according to the admissible rate of interest is _____% CO5- R

   (a) 6 (b) 8 (c) 10 (d) 11

PART – B (5 x 3= 15Marks)

6. Write the purpose of estimates. CO1- R
7. Differentiate between the tender and tender notice? CO2- R
8. Write a specification for foundation and plinth? CO3- R

9. What is the importance of soak pit? CO4- R

10. What are the different methods of valuation? CO5 -R

PART – C (5 x 16= 80 Marks)

11. (a) Explain the basic principles of General and Detailed Specifications prepared for a building . CO1-U (16)

Or

(b) Discuss in detail about various types of Estimates. CO1-U (16)

12. (a) Determine the Quantities and cost of Brickwork with Cement mortar 1: 5 for the construction of 25m two brick wall with standard height. Assume cost of material and labour required as per schedule of rate book. CO2- Ana (16)

Or

(b) Write briefly about CO2- Ana (8)

(i) Types of Contract.

(ii) Construction Contract for labour and materials. CO2- Ana (8)

13. (a) Estimate in detail the quantities of the following items of work in a Two roomed Building shown in the Figure 1. CO3- Ana (16)

(i) Plain Cement concrete(PCC) 1:5:10 for foundation

(ii) RCC(1:2:4) in Roof Slab

(iii) Brick work in super structure

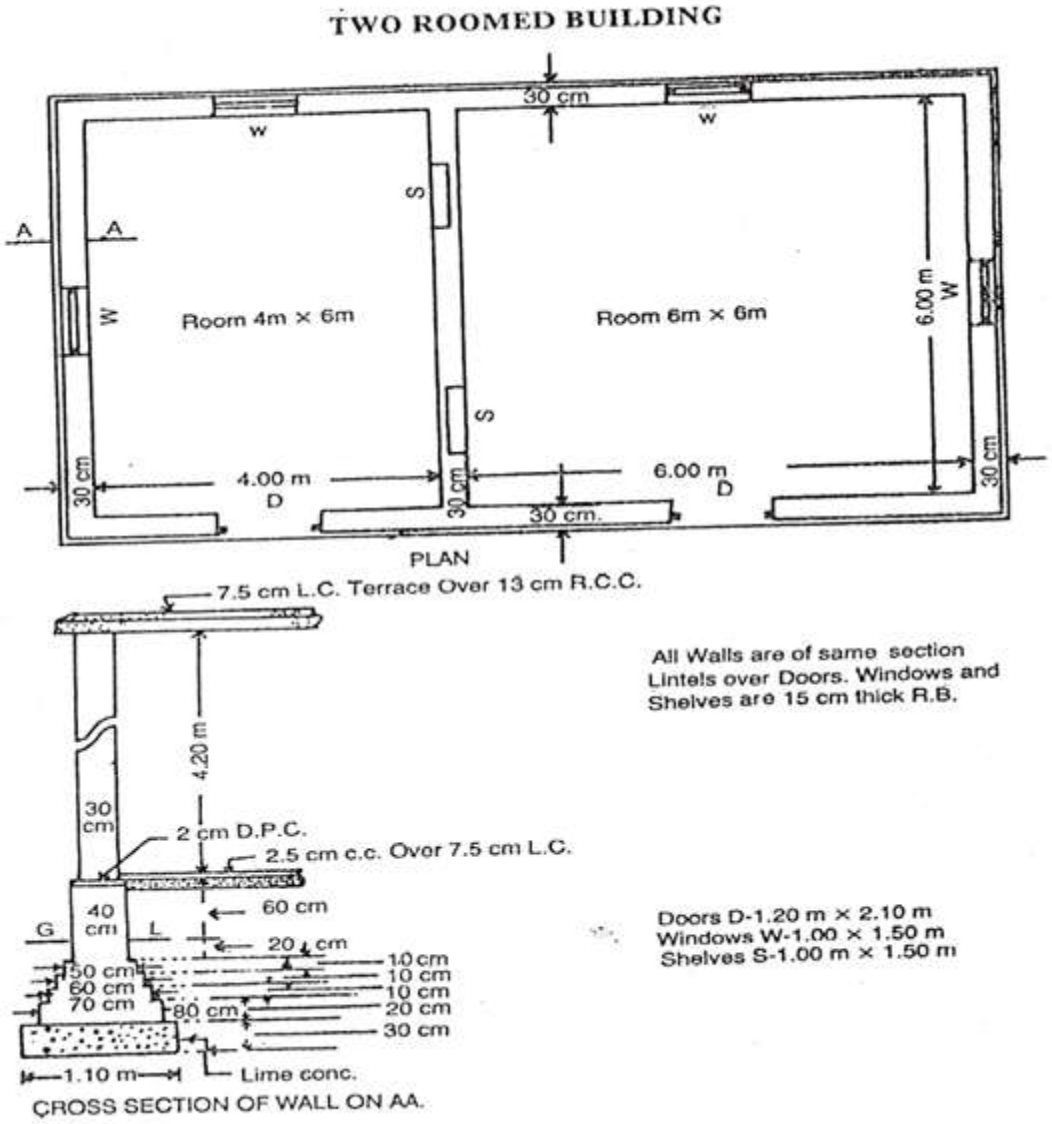

Figure 1

Or

(b) Estimate the quantities of the following items of work in a Building shown in the Figure 1. CO3- Ana (8)

(i) Earthwork excavation in foundation

(ii) Plastering for all interior surfaces of walls CO3- Ana (8)

14. (a) Estimate the quantities of following items of a septic tank shown in the Figure 2. CO4- Ana (16)

(i) Internal Plastering

(ii) Brickwork in CM 1:6 in soak pit

(iii) RCC cover slab for septic tank and soak pit

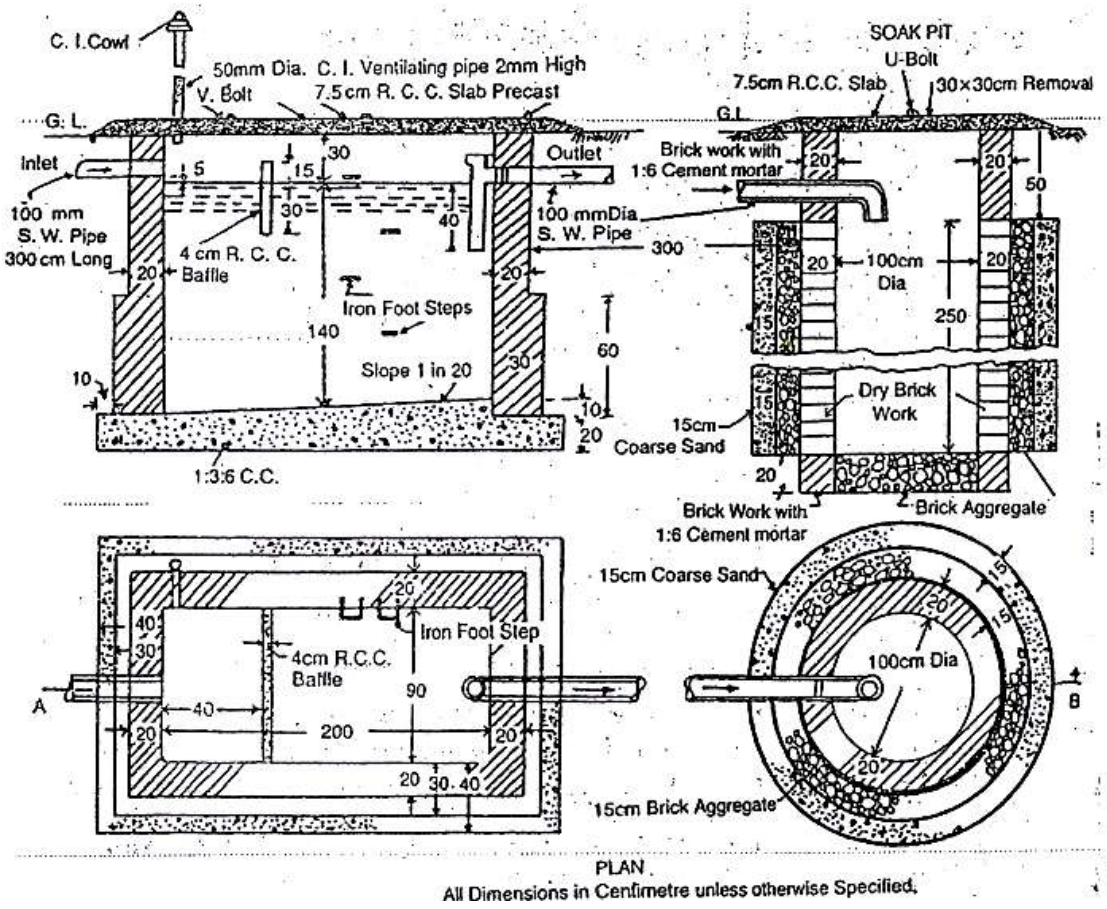

Figure-2

Or

(b) Estimate the quantity of following items of a septic tank shown in the Figure 2. CO4- Ana (16)

(i) Earthwork in excavation

(ii) PCC 1:5:10

(iii) Brickwork with CM 1:6 in septic tank

15. (a) Write short notes on CO5- U (16)

(i) Market value

(ii) Salvage value

(iii) Depreciation

Or

(b) Explain the following CO5- U (16)

(i) Types of lease

(ii) Mortgage

(iii) Write specification for plain cement concrete in foundation

(iv) Method of depreciation