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Question Paper Code: 57102R

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020

Seventh Semester

Civil Engineering

15UCE702 - ESTIMATION COSTING AND VALUATION ENGINEERING

(Regulation 2015)

Duration: One hour

Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

(Answer any six of the following questions)

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. Unit measurement for reinforced cement concrete work is CO1-U
(a) meter (b) cu.m (c) sq.m (d) quintal
3. 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
4. Security money usually.....% of tendered amount. CO2-U
(a) 4% (b) 2% (c) 3% (d) 10%
5. 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
6. No of bricks required per cu.m (nominal) is CO3-U
(a) 500 nos (b) 480 nos (c) 474 nos (d) 524 nos
7. 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

8. Soiling shall be.....cm wider than metalled width of road surface.

CO4-R

(a) 10cm

(b) 20cm

(c) 30cm

(d) 40cm

9. 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

10 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 – C (5 x 16= 80 Marks)

11. Explain the basic principles of General and Detailed Specifications prepared for a building . CO1-U (8)

12. 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 (8)

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

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

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

(iii) Brick work in super structure

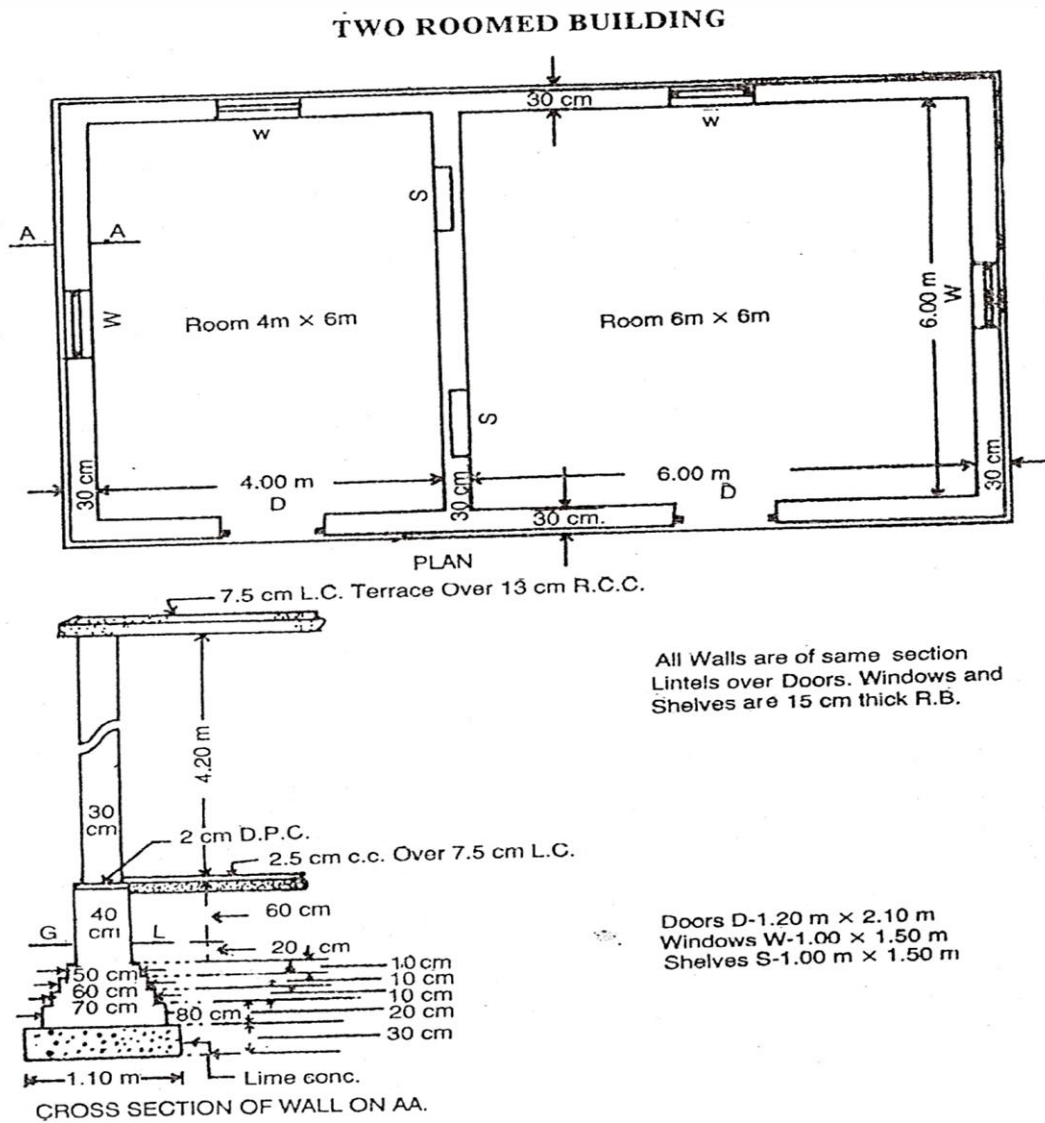


Figure 1

14. Estimate the quantities of following items of a septic tank shown in the CO4- Ana (8)
Figure 2.
- (i) Internal Plastering
 - (ii) Brickwork in CM 1:6 in soak pit
 - (iii) RCC cover slab for septic tank and soak pit

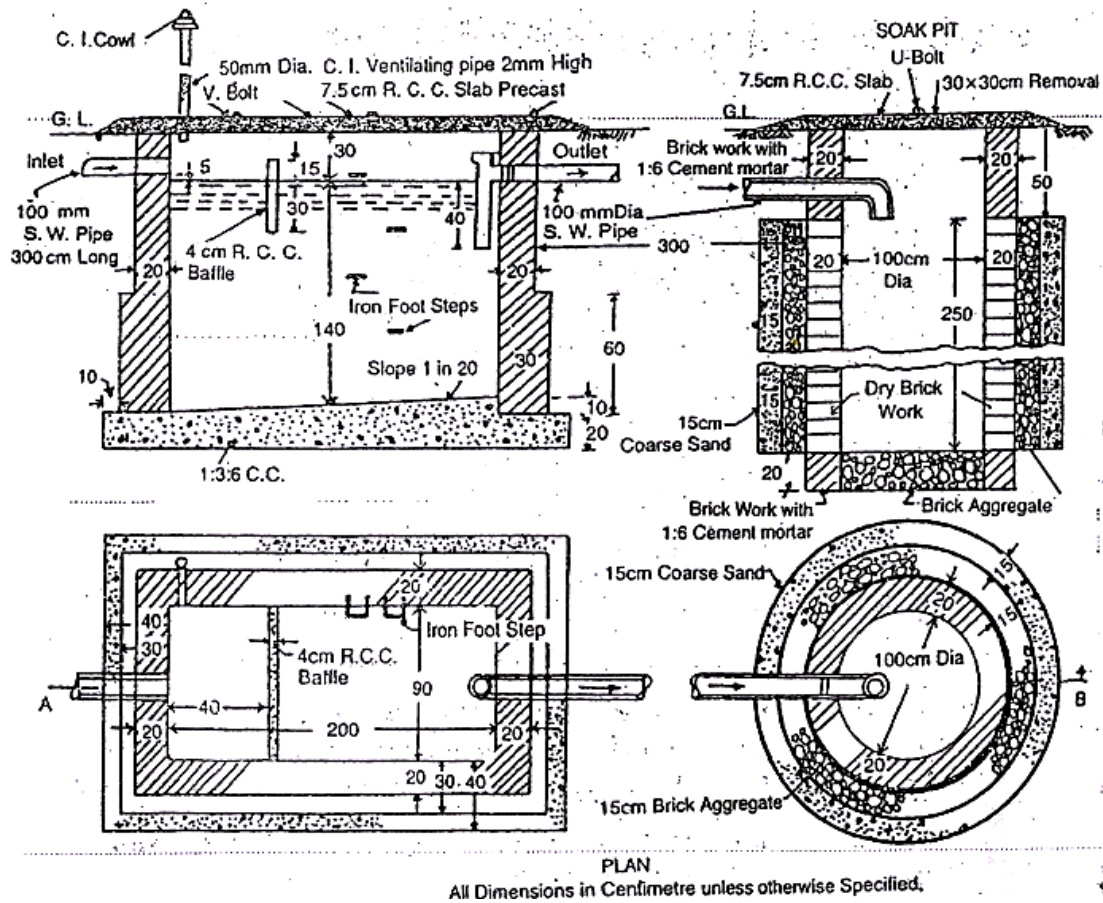


Figure-2

15. Write short notes on
- (i) Market value
 - (ii) Salvage value

CO5- U

(8)