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**Eighth Semester B.E. Degree Examination, July/August 2022**  
**Quantity Surveying and Contracts Management**

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

**Module-1**

- 1 The details of Residential building is as shown in Fig. Q1. Estimate and cost of each item of work.
- Earth work excavation for foundation in ordinary soil at Rs. 300/m<sup>3</sup>
  - Cement concrete bed 1 : 4 : 8 for wall foundations at Rs. 2500/m<sup>3</sup>
  - S.S.M [Size Stone Masonry] 1:8 for footings and basement foundations Rs. 2000/m<sup>3</sup>
  - First class BBM (Burnt Brick Masonry) work for super structure in cm 1 : 6 at Rs. 2000/m<sup>3</sup>.

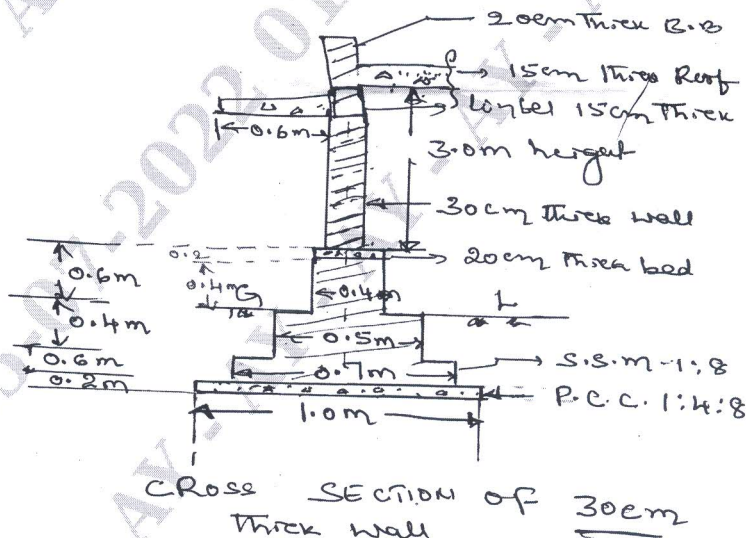
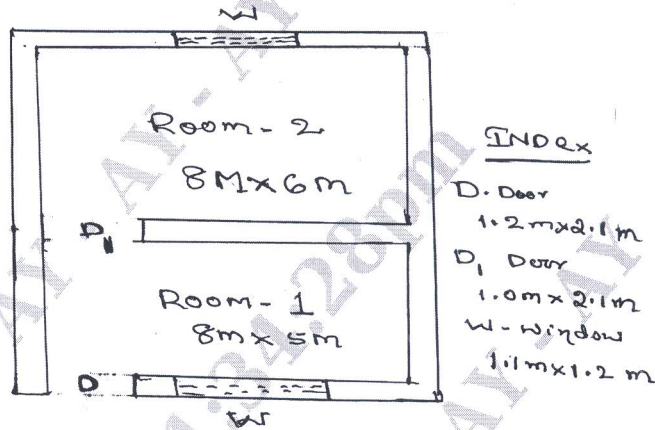


Fig. Q1

(20 Marks)

OR

- What are the different types of estimates? Explain any two types of estimation. (10 Marks)
- What is meant by Estimation? List the purpose of Estimation (10 Marks)

**Module-2**

3 The details of a septic tank is as shown in Fig.Q3. Estimate the quantities for the following items of work.

- a. Earth work excavation in foundation (05 Marks)
- b. Cement concrete 1:3:6 floor and foundation. (05 Marks)
- c. First class brick work with cement mortar 1:4 (05 Marks)
- d. 12mm Thick cement plaster. (05 Marks)

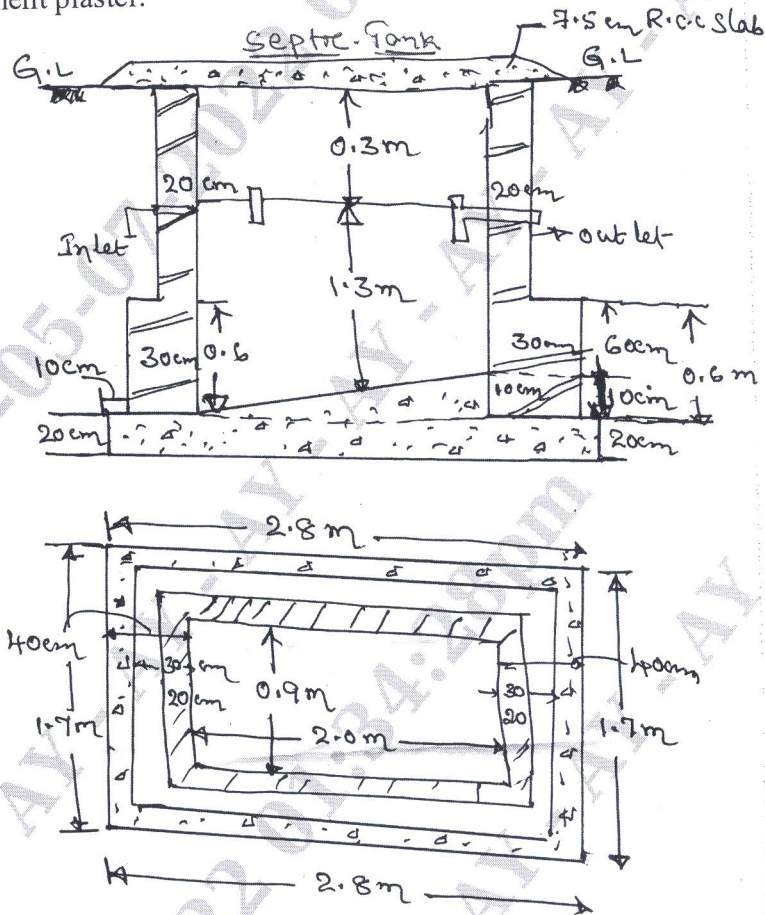


Fig.Q3

OR

4 Estimate the cost of Earth work embankment for the portion of road 300m long from the following data. Cost of earth work Rs. 80.00/m<sup>3</sup>.

Formation Levels	106.8	← Down gradient 1 in 100 →					
RL of Ground	105.42	104.3	104.8	104	102.9	102	102.6
Distance in meter	0	50	100	150	200	250	300

Formation width : 10 m

Side slopes in Embankment : 2:1

(20 Marks)

**Module-3**

5 Write the detailed technical specification for the following :

- a. Earth work excavation for foundation
- b. Burnt Brick Masonry in CM 1:6
- c. Plastering in CM 1:6 to interior surfaces
- d. Painting for inside walls.

(20 Marks)



OR

- 6 Carry out the rate analysis of the following items:
- First class brick work in C.M 1:4 for super structure
  - Cement concrete for foundation 1:4:8 bedding
  - 2.5 cm thick cement concrete 1:2:4 for floor
  - 12mm thick cement plastering 1:6 on new brick work.
- (20 Marks)

Module-4

- 7 a. What is tender? How tenders are invited? (06 Marks)  
b. Explain briefly types of contract. (14 Marks)

OR

- 8 a. What are the terms and conditions of contract? (10 Marks)  
b. Explain briefly :  
(i) Administrative Approval (10 Marks)  
(ii) Technical Sanction

Module-5

- 9 a. What is valuation? What are the purpose of valuation? (10 Marks)  
b. What is Depreciation? What are the methods of calculating depreciation? (10 Marks)

OR

- 10 a. Explain the methods of valuation. (10 Marks)  
b. Explain the following :  
i) Gross income  
ii) Net income  
iii) Capitalized value  
iv) Sinking Fund (10 Marks)

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