Seventh Semester B.E. Degree Examination, Dec.2019/Jan.2020 Estimation and Valuation

Time: 3 hrs.

BANGALO

USN

Max. Marks: 100

(08 Marks)

Note: 1. Question No. 1 is compulsory.

2. Answer any FOUR full questions, selecting atleast TWO questions from Part-B and Part-C.

PART - A

The details of a residential building are shown in Fig.Q1. Estimate the quantities of the following items of works and prepare the abstract of cost of these items.

Earthwork in excavation for foundation ion hard soil at the rate of Rs. 186/m³. (08 Marks)

- b. Earthwork in filling upto the plinth at the rate of Rs. 150/m³. (08 Marks)
- c. Size stone masonry in CM 1:6 in foundation and plinth at the rate of Rs. 3500/m³ and Bed concrete with 1:4:8 at Rs. 3800/m³ (08 Marks)

 | Dighth congrete in 1:2:4 at the rate of Rs. 4500/m³ (08 Marks)
- d. Plinth concrete in 1: 2: 4 at the rate of Rs. 4500/m³
 e. Burnt brick masonry in CM 1: 6 upto roof level at Rs. 4200/m³.

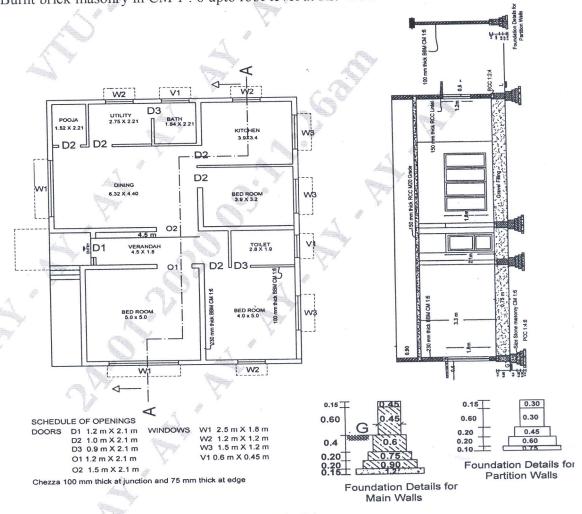
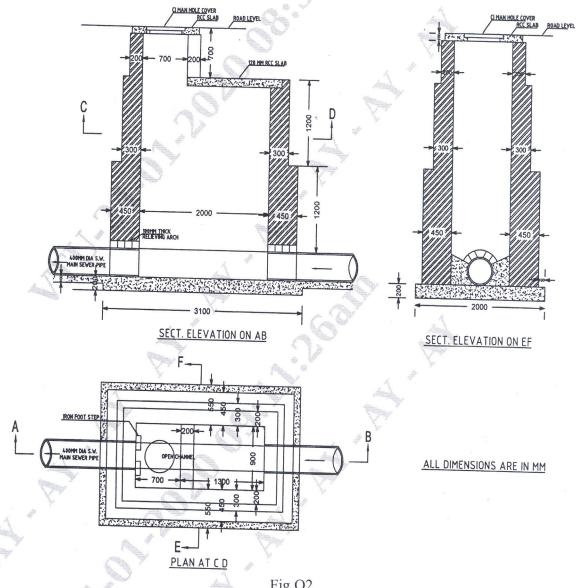


Fig.Q1

PART - B

- Prepare the detailed estimate of a manhole shown in Fig.Q2 for the following items of work. 2
 - Earthwork in excavation (at Rs. 186/m³)
 - Ist class brick work in CM 1:6 (at Rs. 4200/m³)
 - 20 mm thick cement plastering for walls (at Rs. 450/m²)

(15 Marks)



- Fig.Q2
- Explain briefly the salient features of estimation and valuation. 3

(08 Marks)

List and explain the essential requirements of a contrast document.

(07 Marks)

- 4 Write the detailed specifications for any three of the following:
 - Bed concrete in C.C. 1:3:6
 - b. Ist class brick masonry in CM 1:6
 - Concrete flooring with red oxide finishing
 - Painting walls with two coats of emulsion paints over primer and cement based putty.

(15 Marks)

PART - C

- Work out from First principles the rate per unit of any three of the following:
 - a. Size stone masonry in CM 1:6
 - b. Plain cement concrete with 20mm aggregate 1:2:4
 - c. Form work for R.C.C. slab.
 - d. Teakwood door (both frame and shutter)

(15 Marks)

6 The road has the following data:

Chainage	0	30 60	90	120	150	180
R.L.	20.80	21.20 21.80	22.40	23.00	23.10	23.20

The formation level at zero chainage is 22.0 and the road has upward gradient of 1 in 100 up to 60th chainage and downward gradient from 60m chainage afterwards. Calculate the earthwork The width of the road is 12.0m, and side slopes 1.5: 1 both in banking and cutting.

(15 Marks)

- Write short notes on any three of the following:
 - a. Different methods of valuation
 - b. Tender, EMD and Security deposit
 - c. Schedule of rates
 - d. Measurement book.

(15 Marks)

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