Seventh Semester B.E. Degree Examination, June/July 2019
Estimation and Valuation

Time: 3 hrs.   Max. Marks:100

Note: *1. Question no. 1 is compulsory.*
2. Answer any FOUR full questions, selecting any
TWO questions from each Part-B and Part-C.

PART – A

1   Prepare a detailed estimate for a residential building shown in Fig.Q1 for the following
     items of work:
     (i)   Centre line calculations   **(05 Marks)**
     (ii) Earthwork in excavation for foundation @ Rs. 150/m^3 **(06 Marks)**
     (iii) Size stone masonry in C.M 1:6 for foundation and basement @ Rs. 3250/m^3.   **(09 Marks)**
     (iv) R.C.C. floor slab in C.C. 1 : 2 : 4 @ Rs. 6300/m^3.   **(06 Marks)**
     (v)   Plastering in C.M 1:4 for wall inside @ Rs. 200/m^2 **(09 Marks)**
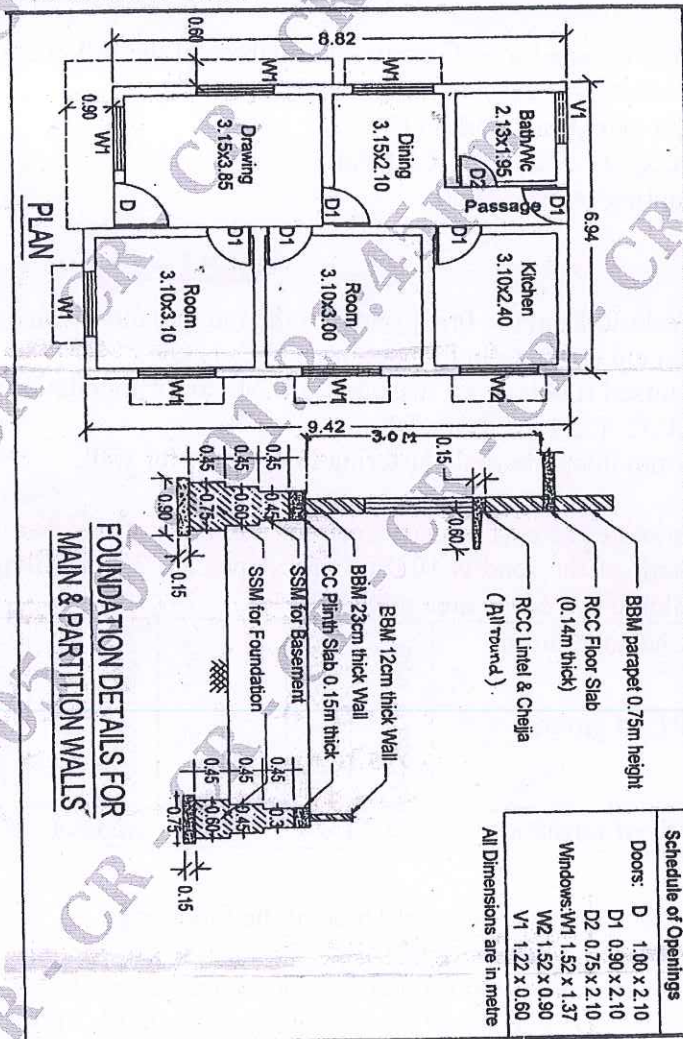   (iv) Total cost abstract of above items.   **(05 Marks)**

Fig.Q1

PART – B

2 The details of a septic tank are given in Fig.Q2. Find the quantities of the following items.
a. Earthwork in excavation for foundation in hard soil
b. BBM in CM 1:4 for side walls
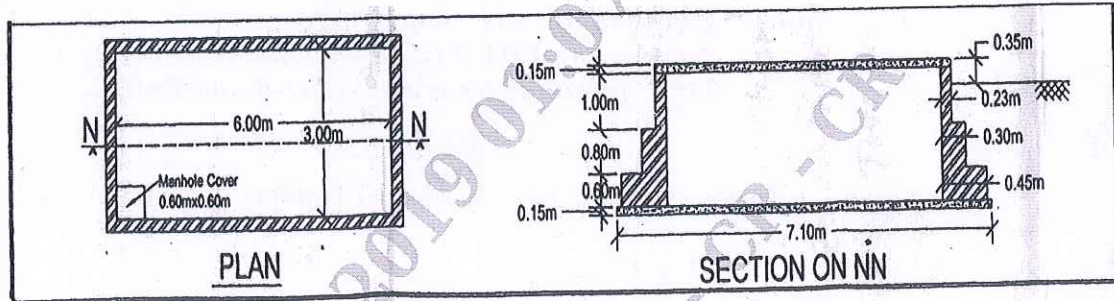c. P.C.C. 1:2:4 for cover slab **(15 Marks)**

Fig.Q2

3 a. What is an estimate? Explain the different types of estimate. **(08 Marks)**
b. Briefly explain different types of Area considered in estimation. **(07 Marks)**

4 Write detailed specification for any three of the following :
a. Earthwork in excavation in foundation
b. First class brickwork in CM 1:5
c. R.C.C. 1 : 1½ : 3 for Roof slab
d. Painting on woodwork. **(15 Marks)**

PART – C

5 Workout from the first principles the rate per unit of any three of the following :
a. Cement concrete in foundation in C.C. 1:3:6.
b. Coursed rubble stone masonry in C.M 1:6 for foundation
c. R.C.C. 1:2:4 for Roof slab
d. 12mm thick internal plastering in C.M 1:4 for wall. **(15 Marks)**

6 Estimate the cost of earthwork for a portion of the road from the following data. Formation width of the road is 10.0 m side slopes are 2:1 in filling and 1.5:1 in cutting compute the volume by "Mean area method".

Chainage in 'm'	600	630	660	690	720	750	780	810	840	870	900
RL of ground	71.20	71.25	70.9	71.25	70.80	70.45	70.20	70.35	69.10	69.45	69.70
RL of formation	70.0	←		Rising	gradient	of	1	in	200		→

(15 Marks)

7 Write short notes on any Three of the following :
a. Tender and Tender notice
b. Earnest money deposit and Security money deposit
c. What is Depreciation? Mention different methods of determining depreciation.
d. What is contract? Explain different types. **(15 Marks)**

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