CBCS SCHEME

USN | | | | | | | | | | 15CV81

Eighth Semester B.E. Degree Examination, June/July 2024
Quantity Surveying & Contracts Management

Time: 3 hrs. Max. Marks: 80

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

Module-1

1 The details of Residential building are,
Foundation bed conc 1 : 4 : 8 for all walls,
SSM in CM 1 : 6 for all walls,
Plinth slab CC 1 : 4 : 8, 15 cm thick for all walls,
Super structure of BBM in CM 1 : 6, Main wall 30 cm partition wall 20 cm
Work out quantity of Item and prepare abstract by Central Line Method.

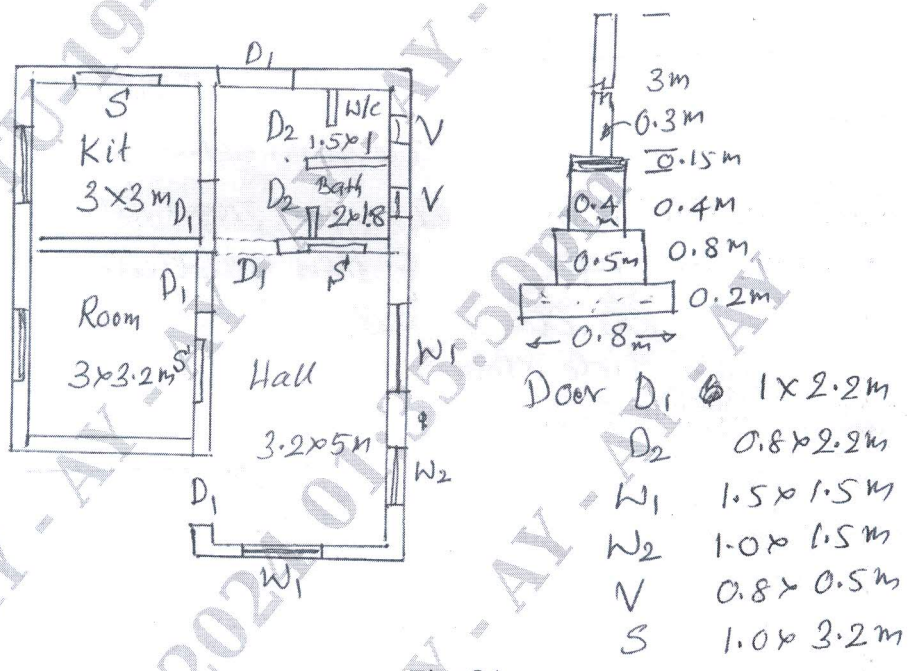

Fig. Q1

Note : Foundation is same for 30 cm wall and 20 cm wall. **(16 Marks)**

OR

2 Prepare a detailed, estimate for a slab over a room of 3m×6m clear span. RCC work including centering and shuttering. Steel cost including bending, tabulate the schedule of bars, wall thickness 30 cm. (Refer Fig. Q2)

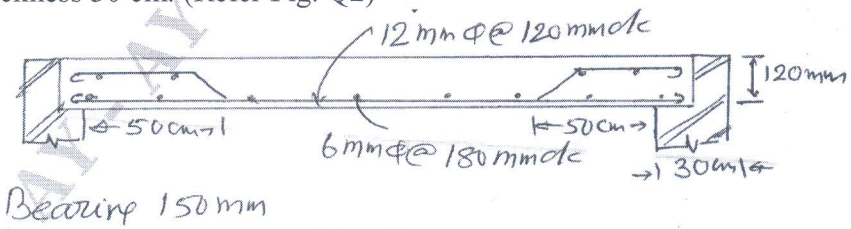

Fig. Q2 **(16 Marks)**

Module-2

3 The details of a septic tank is shown in Fig. Q3. Estimate (i) Earthwork in Excavation (ii) First class brick work in CM 1 : 4 (iii) 12 mm brick plastering with water proofing. **(16 Marks)**

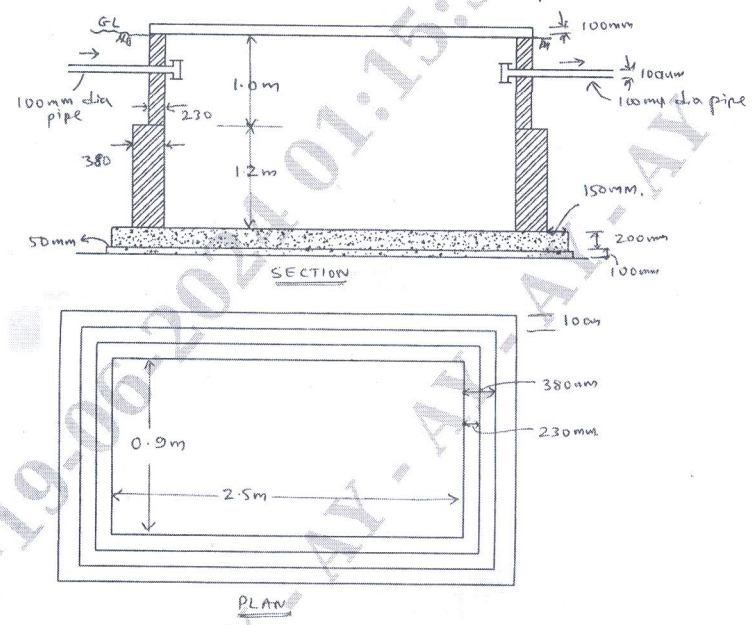

Fig. Q3

OR

4 In an highway alignment following reduced levels are noted down at different chainages. The formation level is Flat 140.00. The formation width of Road is 10 m in banking and 8 m in cutting. Side slopes are 2 : 1 in banking and 1.5 : 1 in cutting. Calculate the quantities of earthwork in cutting and banking. **(16 Marks)**

Chainage in m	0	30	60	90	120	150	180	210
R.L of ground	140.60	140.70	140.50	140.40	131.40	131.30	131.20	131.10
R.L of formation	←140.00 →Flat→							
Station point	1	2	3	4	5	6	7	8

Module-3

5 Write the detailed technical specifications for the following:

i) Earth work excavation for foundation
ii) Burnt Brick Masonary in CM 1:6
iii) Plastering in CM 1:6 to interior surface
iv) RCC work proportion 1:2:4. **(16 Marks)**

OR

6 Carryout the rate analysis for the following:

i) Earth work excavation for foundation in ordinary soil.
ii) P.C.C. 1:4:8 for foundation using 40mm and down size aggregate.
iii) Coursed rubble masonry in CM 1:6.
iv) RCC $1:1\frac{1}{2}:3$ for roof slab. **(16 Marks)**

Module-4

7 What are different types of contracts? Explain briefly. **(16 Marks)**

OR

8 Explain the procedure of tendering and award of works in civil engineering projects. **(16 Marks)**

Module-5

9 a. Write short notes on:
(i) Time limit for completion and breach of contract.
(ii) Contract management and administration. **(08 Marks)**

b. Enumerate the different methods of valuation of a building and explain any one in detail. **(08 Marks)**

OR

10 a. What is depreciation? What are the methods of determining the depreciation? **(08 Marks)**

b. A residential building constructed on a plot measuring 250 sqm. The Plinth area of the building is 180 sqm. The building is of R.C.C framed structure and life of 80 years. This building earns a rent of Rs.10,000 each month. Work out the capitalized value of the property at 8% yield. sinking fund @ 5% compounded. Cost of land Rs.5000/sqm. Other data required may suitably assumed. **(08 Marks)**

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