

CBCS SCHEME

15CV81

Eighth Semester B.E. Degree Examination, Jan./Feb. 2023 Quantity Surveying and Contracts Management

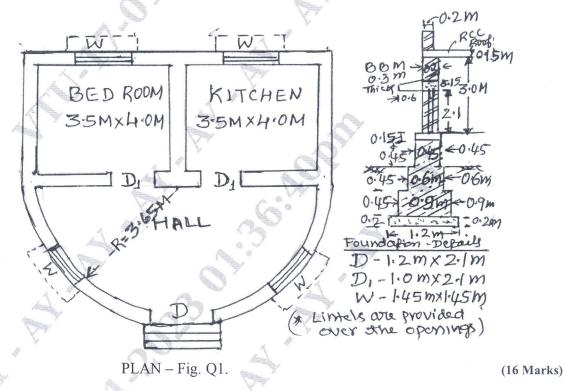
Time: 3 hrs.

Max. Marks: 80

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

Module-1

- 1 The details of the Residential Building are shown in the Fig. Q1. Estimate the following items of work:
 - i) Earth work Excavation for foundation in soft soils at Rs 350/cum.
 - ii) Size stone masonry (SSM) in CM 1: 8 for foundation and basement at Rs 2200/cum.
 - iii) 1st class Brick work for super structure in CM 1:6 at Rs 2500/cum.
 - iv) Plastering for ceiling in CM 1:3 at Rs 220/SQM.



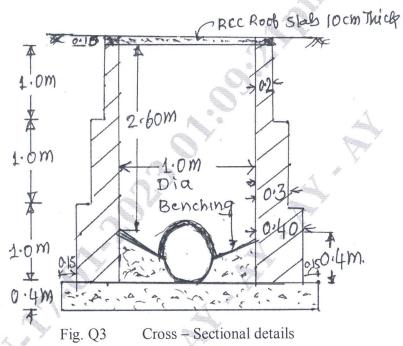
OR

2 Explain the different types of Estimates used in making of estimate.

(16 Marks)

Module-2

- 3 Estimate the quantities of the following items of work for the manhole shown in Fig. Q3.
 - i) Earthwork Excavation for foundation.
 - ii) CC 1:3:6 for foundation.
 - iii) 1st class bricks in CM 1:6 for walls.
 - iv) Cement pointing in CM 1: 2 for inner face.
 - v) RCC 1:2:4 for slab over the manhole.



(16 Marks)

OR

4 Calculate the Quantity of Earthwork for a road of 12m formation width with the following data using mid sectional area method.

Chainage	80	81	82	83	84	85	86	87.	88
RL of Ground	108.6	109.25	109.4	108.85	108.5	107.25	106.8	107.15	107.20

The Road formation level at the chainage 80 is 108.6m at a uniform falling gradient of 1 in 200. Length of one chainage is 30m. Side slopes in cutting is 1.5:1 and in banking is 2:1. Draw the longitudinal profile of the ground.

(16 Marks)

Module-3

- 5 Write the Civil Engineering specification in detail for the following items of work:
 - i) Plain cement concrete in CC 1:3:6 for foundation bed.
 - ii) First class Brick work for super structure in CM 1:6.
 - iii) Plastering to Burnt Brick Masonry walls in CM 1: 6 for outside.
 - iv) Painting to wood works.

(16 Marks)

OR

- 6 Workout from First Principles the analysis of rates for the following Civil Engineering works:
 - i) Earthwork Excavation for foundation in ordinary soil.
 - ii) Coursed Rubble stone masonry in CM 1:8 for foundation and plinth.
 - iii) R.C.C work in Roof slab in CC 1: 1.5: 3. Excluding the cost of steel and centering.
 - iv) White washing 2 costs on a coat of primer to new plaster surface.

(16 Marks)

Module-4

- 7 a. Explain the following terms:
 - i) Administrative approval.
 - ii) Technical sanction
 - iii) Letter of intent.
 - iv) Bid submission.

(08 Marks)

b. Mention the elements of standard tender documents.

(08 Marks)

15CV81

OR

8 Mention the different types of contract. Explain any four types of contract.

(16 Marks)

Module-5

- 9 Explain the following terms:
 - i) EMD and SD.
 - ii) Suspension of work and Time limit for completion.
 - iii) Liquidated Damages and Bonous.
 - iv) Escalation and claims.

(16 Marks)

OR

10 a. Define Depreciation and explain the different methods of Depreciation.

(08 Marks)

b. Define Valuation and briefly explain the different methods of valuation.

(08 Marks)