Question Bank (I-Scheme)

Name of Course: Estimating and Costing **Subject code: 22503**
Semester: V **Programme: Civil**

Unit test II

Unit 4 – Rate Analysis (12 Marks)

2 marks question

1. Define Rate analysis and state its purpose.
2. Define rate analysis and state the factors affecting rate analysis.
3. Explain in brief lead and lift.

4 marks question

1. Prepare rate analysis for brickwork in superstructure in cm 1:6 for Cu.m.
2. Prepare rate analysis for 60 m3 cement concrete of proportion (1:2:4)
3. Prepare rate analysis of stone masonry required for foundation and plinth in uncoursed rubble stone in CM 1:6
4. Prepare rate analysis for plastering 12 mm thick in CM 1:3
5. Workout the material required for 50 m3 brickwork masonry in cement mortar 1:6
6. Prepare the rate analysis for brick masonry in super-structure using traditional bricks and cement mortar proportion 1:6
7. Calculate the quantities of cement, sand and coarse aggregate for 40 m3 cement concrete having proportion (1 : 2 : 4)

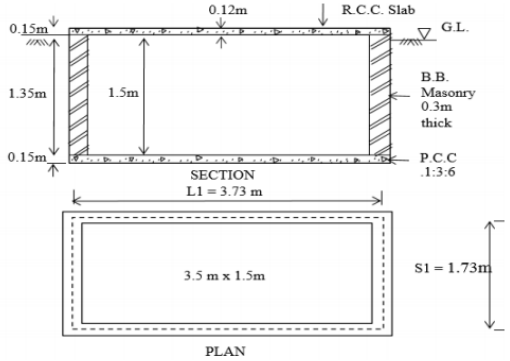
Unit 5 – Estimate for Civil Engineering Works (12 Marks)

2 marks question

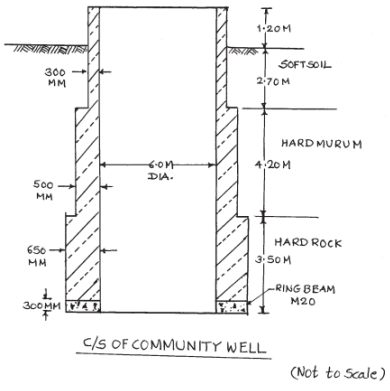
1. State any four advantages of using software/program for estimating and costing.
2. Enlist any eight software's names used in estimating and costing.
3. State any four advantages of using software have /programmes for estimating and costing.
4. What are the advantages of using software (QE – Pro) in preparation of estimates of civil engineering works?
5. Explain prismoidal formula method for finding earth work for road.

4 marks question

1. Workout quantity of following items for septic tank of size 1.80 m X 5.40 m and height 2.0 m. i. Earthwork in Excavation ii. P.C.C. (1:3:6) iii.BB masonry in cm (1:6) iv Slab on septic tank 75 mm thick.
2. Workout quantities of following items for septic tank having internal dimension 1.5 x 3.5 m and height 1.5 m i) Earthwork in excavation. ii) P.C.C.(1:3:6) 15 CM THICK iii) B.B. masonry in CM (1:6 (230 mm thick) iv) M15 slab on septic tank 12 cm thick .the top of slab of septic tank is 15 cm above ground level.



3. Work out quantity of UCR foundation of community well



4. Work out quantity of R.C.C. ring beam of community well in above fig.
5. Fig. no.1 shows underground water tank .calculate quantity of

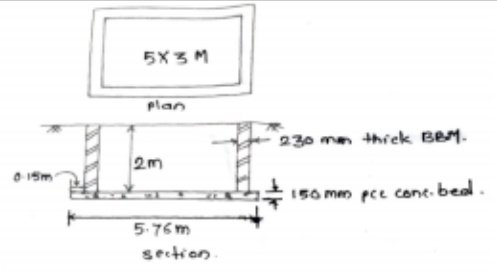


Fig. No. 1