

School of Engineering

**B.TECH Civil Engineering
Semester End Examination - Jun 2024**

**Duration : 180 Minutes
Max Marks : 100**

Sem VI - G1UA605C - BCE01T3604 Quantity Surveying and Estimating

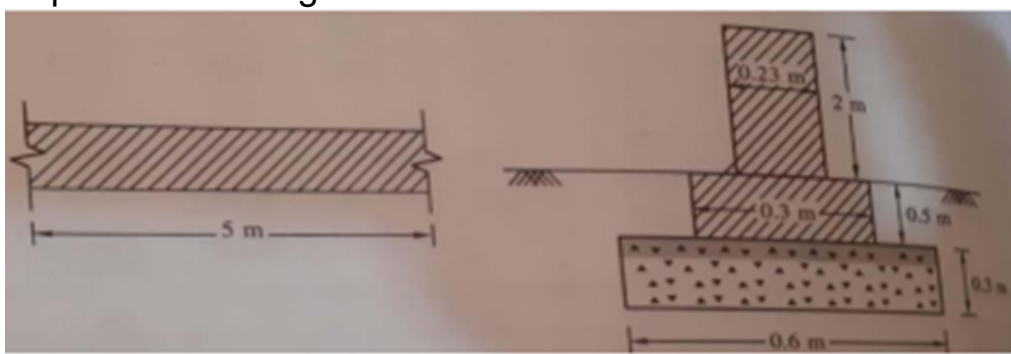
General Instructions

Answer to the specific question asked

Draw neat, labelled diagrams wherever necessary

Approved data hand books are allowed subject to verification by the Invigilator

- 1) State the units of Damp proof course. K1(2)
- 2) Explain how the Rent Fixitation is processed. K2(4)
- 3) Explain the Plinth area of the building. K2(6)
- 4) Predict the approximate estimate of a proposed construction of a building with the following. a)Plinth area = 116 m² b)Cost per unit area = Rs 1800/- per m² . c)Electrification @ = 7% of building cost. d)Formation of roads and lawns at 5% building cost. e)P.S charges at 3% building cost. K3(9)
- 5) Explain the detail about rate analysis of material that can be held in your own locality. K3(9)
- 6) Explain how do you estimate the earthwork in canals for Fully in excavation cases of canal K5(10)
- 7) Prepare the workout quantity of dry material & cost of material and labour for first class brickwork in superstructure in cement mortar 1:4 for 10 cum. The following rates at the site may be considered: 1) sand-Rs 450 per cum. 2) Cement-Rs. 350 per bag. 3) Standard bricks- Rs.20000 on road (5000 nos) 4) Mixing Mortar- Rs. 50 per cum 5) First class mason-Rs 550/ day 6) Man Mazdoor at - Rs.400 per day 7) Women Mazdoor/ Bhisti- Rs.350 per day. K4(12)
- 8) Prepare the Estimate the quantities for Fig shows the plan and section of a part of a compound wall calculate the quantity of a) Calculate concrete required for foundations. b)Brick masonry required for footing and wall. K5(15)



- 9) Prepare rate analysis for a plastering work in cement-mortar(1:6). K5(15)

10)

Thickness of plaster is 10mm & Area of wall is 75 m².

Estimate the quantities by Center line method. For given plan of super structure of a single room building 5m x 4m, i) Earth work excavation in foundation. ii) Concrete in foundation. iii) Brick work in foundation & Plinth iv) Brick work in superstructure.

K6(18)

