

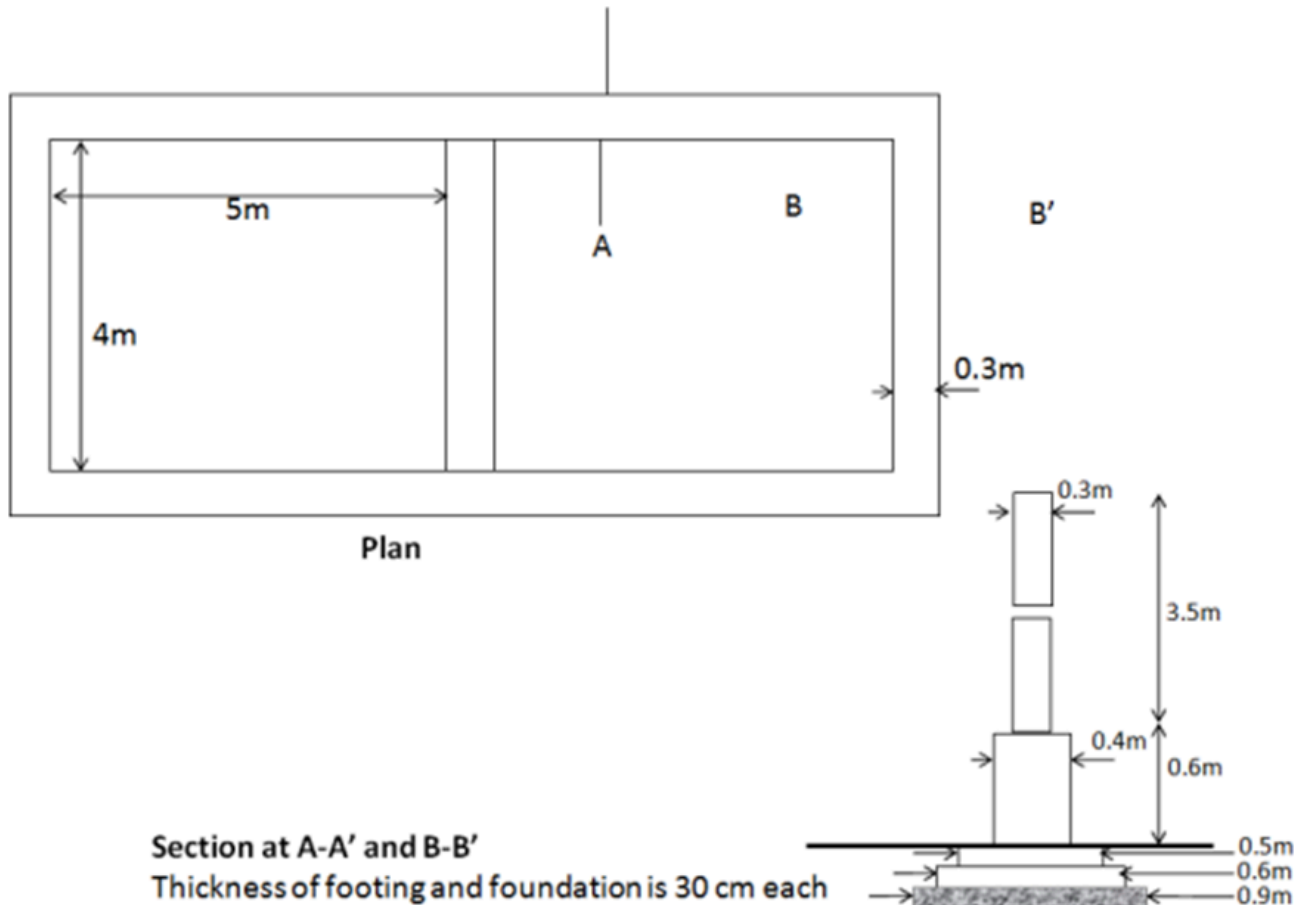
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**School of Engineering****B.TECH Civil Engineering  
Mid Term Examination - May 2024****Duration : 90 Minutes  
Max Marks : 50****Sem VI - G1UA605C - Quantity Surveying and Estimating***General Instructions**Answer to the specific question asked**Draw neat, labelled diagrams wherever necessary**Approved data hand books are allowed subject to verification by the Invigilator*

- 1) Discuss the term long wall-short wall method. K2 (2)
- 2) List the methods taking out in estimating and quantities K1 (3)
- 3) Describe the term Detailed estimate. K2 (4)
- 4) Differentiate the Plinth area and Carpet area. K2 (6)
- 5) Explain mid-sectional area method . K3 (6)
- 6) Predict a rough estimate for a proposed commercial complex for a municipal corporation for the following data. Plinth area =Rs 500/per m<sup>2</sup> /floor. Height of each floor = 3m No of stories = Ground+2. Cubical content rate = Rs 1000/- per m<sup>3</sup> Provisions are given below. a)Water supply & sanitation = 8% of building cost . b)Electrification = 6% of building cost. c)Fluctuation of rates = 5% of building cost. d)Contractor's margin = 10% of total cost. e)Petty supervision and contingencies = 3% of total cost. K3 (9)

- 7) Calculate a detailed estimate of a part of a wall of a building from the given plan and section. Calculate, ✓ Earthwork excavation in foundation ✓ Lime concrete in foundation ✓ First class brickwork in foundation and plinth ✓ Brickwork in superstructure.

K4 (8)



- 8) Prepare a rough estimate of a proposed commercial complex in the corporation limits for the following. Plinth area = Rs 400 m<sup>2</sup> /floor  
Height of each storey = 3m. No of stories = G+2 = 3 Floors  
Cubic content rate = Rs 3000/- per m<sup>3</sup>. Provide the following provisions as percentage of building cost. 1.W.S and sanitary arrangements -8%. 2.Electricification – 6%. 3.Fluctuation of rates- 5% Provide the following provisions as percentage of building cost. 4. Contractors profit-10%. 5.P.S. and contingencies- 3%.

K4 (12)

**OR**

Prepare a plinth area estimate of a building with a total plinth area of 100m<sup>2</sup>. Given that 1)Plinth area rate Rs 5000/- per m<sup>2</sup>. 2)Extra for architectural appearance = 2.5% of the building cost. 3)Extra for Electrical installations = 10% of building cost. 4)Extra for water supply & sanitary installation = 7% of building cost. 5)Contingencies -8% 6)Supervision charges – 10%

K4 (12)