

GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER-VII EXAMINATION – WINTER 2025

Subject Code:2170610

Date:13-11-2025

Subject Name:Professional Practices and Valuation

Time:10:30 AM TO 01:00 PM

Total Marks:70

Instructions:

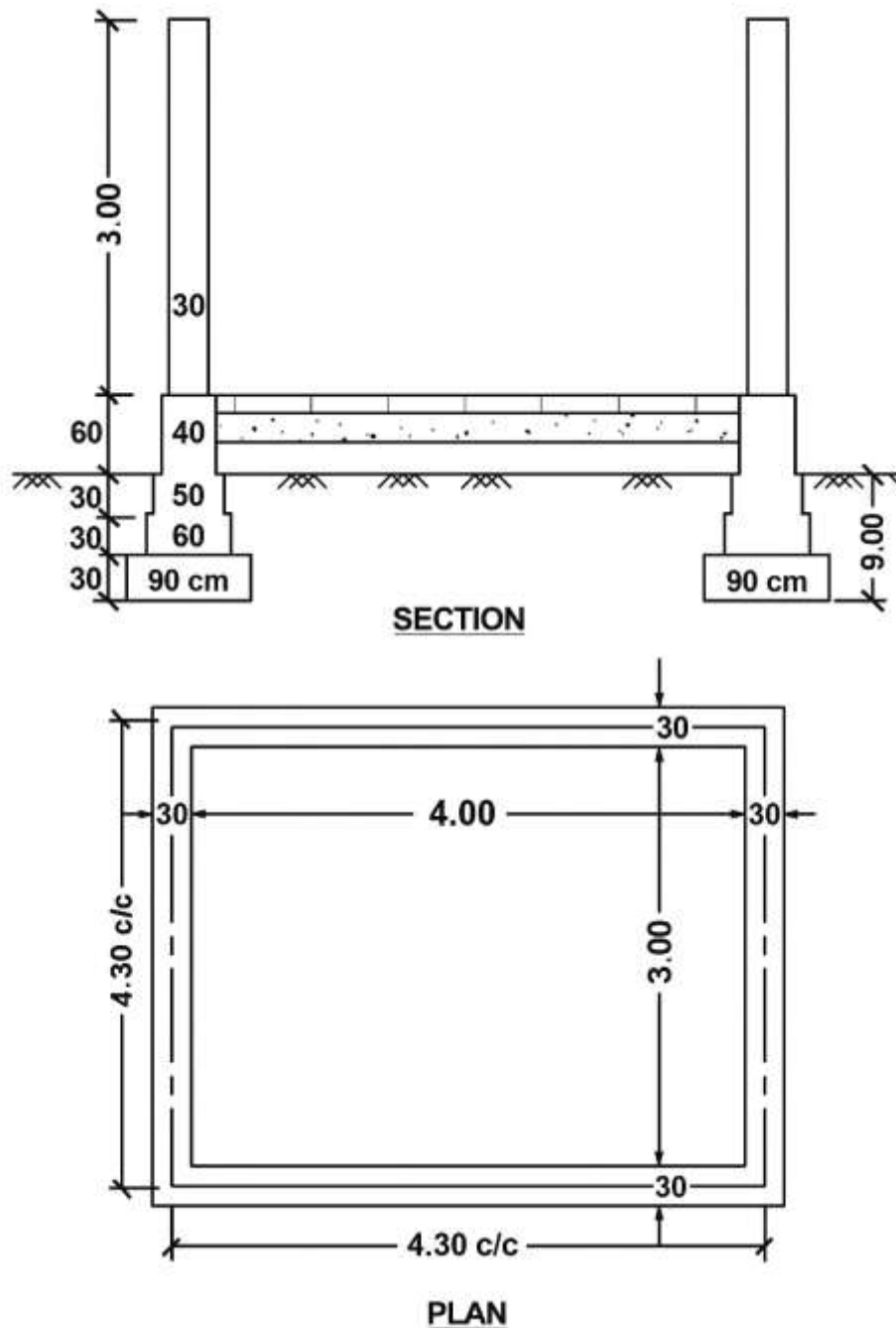
1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

	MARKS
Q.1 (a) State and explain the purpose of preparing estimate.	03
(b) Write formulas for the following: (1) Area of Segment of Circle, (2) Area of ellipse, (3) Curved surface area of cylinder, (4) Volume of frustum of pyramid.	04
(c) a) Find the curved surface area and volume of a frustum of cone having top diameter 10 cm, bottom diameter 16 cm and height 12 cm.	07
Q.2 (a) What are the duties of Quality surveyor?	03
(b) Write a difference between detail estimate and Supplementary estimate.	04
(c) For the following given figure 1, calculate the quantities of following items by centre line method. A single room (4.0 m x 3.0 m) plan is given: (i) Earth work in excavation for foundation (ii) Concrete in foundation (iii) Brickwork in foundation and plinth (iv) Brickwork in super structure.	07
OR	
(c) Explain with suitable example long wall- short wall method of preparing building estimate.	07
Q.3 (a) What Care would you take while drafting specifications?	03
(b) Difference between Brief Specification and Detail Specification.	04
(c) Compute rate analysis for Cement Concrete (1:4:8) for foundation.	07
OR	
Q.3 (a) What are the purpose and Importance of Specification?	03
(b) Define rate analysis. How we can fix rate per unit of item in rate analysis.	04
(c) Explain in detail various factors affecting the rate analysis.	07
Q.4 (a) Write short note on Schedule of rates (S.O.R)	03
(b) Explain following terms – Liquidated Damages, Unbalanced Tender, Arbitration, and Year's Purchase.	04
(c) Define tender and draft a typical tender notice for civil engineering works.	07
OR	
Q.4 (a) Explain: Tender Fee. Earnest money deposit and Security deposit.	03
(b) Explain percentage rate of contract.	04
(c) Explain in brief different types of contract.	07

- Q.5 (a) Differentiate between departmental execution and contract system. 03
 (b) What do you mean by value? State the purposes of Valuation. 04
 (c) How would you determine value of the property using rental method of valuation? Enumerate its advantages and limitations. 07

OR

- Q.5 (a) Give difference between estimation and valuation. 03
 (b) Differentiate between free hold Property and Lease hold property. 04
 (c) Define the following terms: 1. Scrap value 2. Accommodation value 07
 3. Gross income 4. Salvage value 5. Book Value 6. Sinking fund 7.
 Year's purchase



FigureNo.1
