

GUJARAT TECHNOLOGICAL UNIVERSITY**B.Arch - SEMESTER-VI EXAMINATION – WINTER 2025****Subject Code:2X65005****Date:19-11-2025****Subject Name: Estimating And Costing****Time:02:30 PM TO 04:30 PM****Total Marks:50****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) Calculate the Volume and Area of shape given in Figure – 3.	05
	(b) Explain Detailed Estimation and Draw the Measurement Sheet and Abstract Sheet.	05
Q.2	(a) Explain the Detailed Specification for Earthwork.	05
	(b) Explain the Centerline Method with suitable example.	05
OR		
	(b) Which Types of data are required for the Estimation? Write in details.	05
Q.3	(a) Prepare the Estimation of following below Quantities by suing any Method. (Refer fig. -1) (i) Excavation (ii) P.C.C.	05
	(b) Prepare the Estimation of following below Quantities by suing any Method. (Refer fig. -1) (i) 2 nd class brickwork for footings up to plinth level. (ii) Drawing Room & Dining Room Plastering (Internal)	05
OR		
Q.3	(a) The Details of RCC Beam as shows in figure - 2. Calculate the following below quantities. (i) Total quantity of steel bars (ii) Quantity of form work	05
	(b) The Details of RCC Beam as shows in figure - 2. Calculate the following below quantities. (i) Number of Cements Beg required (ii) Quantity of Concrete Work	05
Q.4	(a) Write a short note on S.O.R.	05
	(b) Explain factors affecting Rate Analysis.	05
OR		
Q.4	(a) Define Rate Analysis and Write purpose of Rate Analysis.	05
	(b) Prepare a Rate Analysis for Half Brick wall (10 cm thick Partition Wall) with CM (1:3). (Take Area = 100 m ²).	05
Q.5	(a) Write detailed specification on R.C.C works.	05
	(b) Write the Specification for the 1 st class Brickwork in Cement Mortar (1:6) for Superstructure.	05

