

Enrolment No./Seat No \_\_\_\_\_

## GUJARAT TECHNOLOGICAL UNIVERSITY

B.Arch- SEMESTER-VI EXAMINATION – SUMMER 2025

Subject Code:2X65005

Date:16-05-2025

Subject Name: Estimating And Costing

Time:10:30 AM TO 12:30 PM

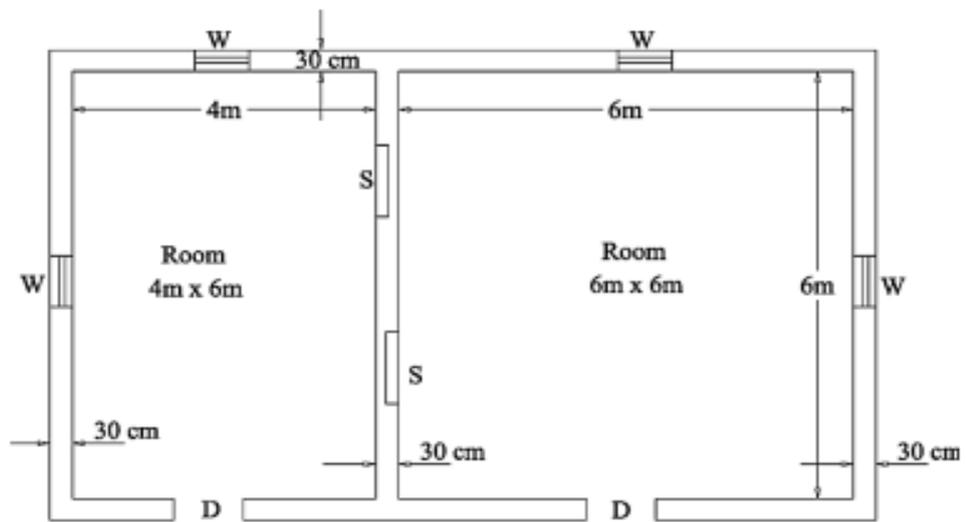
Total Marks:50

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
<b>Q.1</b>	(a) Write detail specifications for Earthwork in excavation in foundation.	<b>07</b>
	(b) Write short note on Schedule of rates (S.O.R)	<b>03</b>
<b>Q.2</b>	(a) Explain in brief about work charge establishment.	<b>04</b>
	(b) Write formulas with their figures, showing the area using hatch, for the following: 1. Area of Segment of Circle. 2. Area of ellipse. 3. Curved surface area of cylinder	<b>06</b>
	<b>OR</b>	
	(b) Compare, Revised Estimate and Supplementary Estimate	<b>06</b>
<b>Q.3</b>	Calculate the followings: 1. No. of bricks required for 1 cu. m. brick work. 2. No. of cement bags for 1 cu.m brick work in cement mortar 1:4	<b>10</b>
<b>Q.4</b>	(a) For the Figure-01, find the quantities of following items of work. 1. Earthwork in excavation in foundation trench, 2. Lime concrete in foundation, 3. First class brick work in 1:6 cement mortar in foundation and plinth, 4. 2.5 cm thick DPC (1:2:4) with water proofing compound.	<b>12</b>
	(b) Prepare an abstract sheet for the above quantities.	<b>08</b>

## PLAN



## DETAILS OF FOOTING

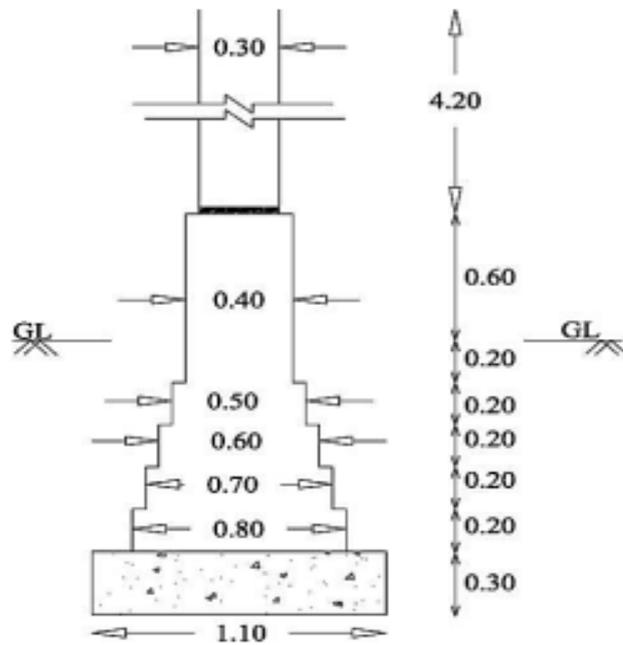


FIGURE-01

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