

GUJARAT TECHNOLOGICAL UNIVERSITY

B.ARCH- SEMESTER-VI EXAMINATION – WINTER 2024

Subject Code:2X65005

Date:27-11-2024

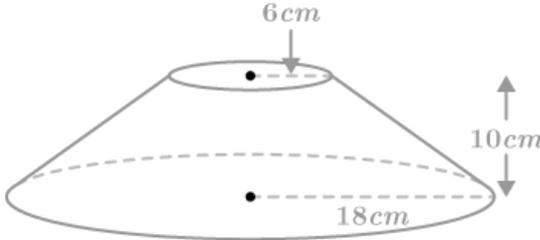
Subject Name: Estimating And Costing

Time:02:30 PM TO 04:30 PM

Total Marks:50

Instructions:

1. Attempt any five 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) Prepare rate analysis for R.C.C. (1:2:4).	10
Q.2 (a) Give difference between detailed and brief specification.	05
(b) Write specification for 12mm thick plaster work in C.M. (1:4).	05
Q.3 (a) Write the current market rate for the following items.	05
1. Cement (per bag)	
2. 1 st class brick (per piece)	
3. Steel (per kg)	
4. Mason (per day)	
5. 9-inch AAC Block (per piece)	
(b) Show the calculation of number of bricks required in 1 M ³ brick masonry work.	05
Q.4 (a) Write the equation of Area and Volume for the following.	05
1. Cylinder	
2. Frustum of cone	
3. Speare	
4. Ellipse	
5. Frustum of pyramid.	
(b) The figure shows a frustum which is obtained by removing a smaller cone with a base radius of 6 cm from the bigger cone that has a base radius of 18 cm. Given that the height of the frustum is 10 cm find its volume.	05
	
Q.5 (a) Enumerates and discuss various types of estimates.	05
(b) Explain work charge establishment and contingency.	05
Q.6 (a) Calculate the followings for fig.-1	10
1. Excavation for the foundation.	
2. B.B.C.C. (1:4:8) for foundation.	
3. Brick masonry up to plinth level.	
4. Re-Filling of sand in foundation trenches.	
5. 5 cm thick D.P.C.	

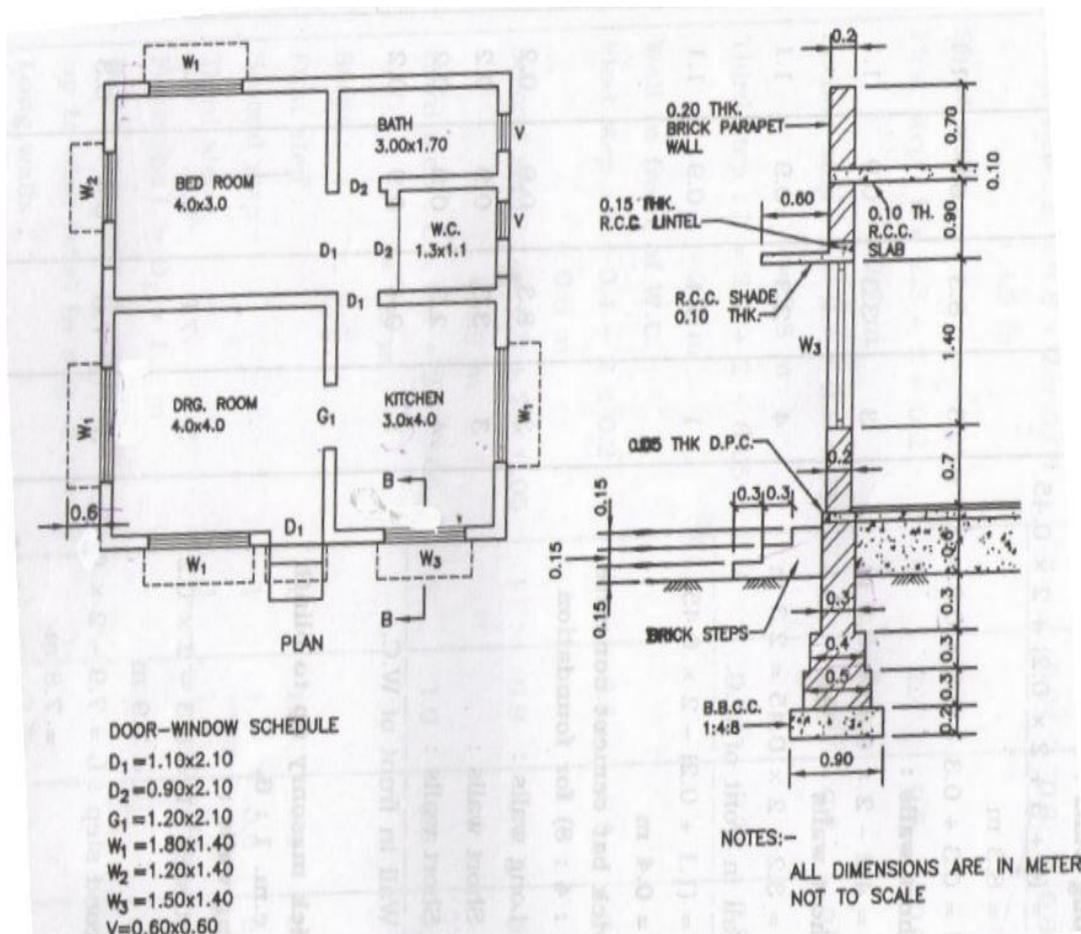


FIGURE-01
