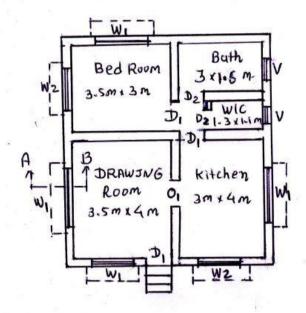
Seat No.:	Enrolment No

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII (NEW) - EXAMINATION – SUMMER 2017 Subject Code: 2170610 Date: 06/05/2017

Ti	me: struct	1. Attempt all questions.	70
		 Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 	
Q.1	(a)	For the following given figure 1, calculate the quantities of following items by centre line method. 1. Earth work in excavation in foundation. 2. Brick masonry work in foundation up to plinth in cm 1:6. 3. Brick masonry work above plinth up to slab level.	07
	(b)	 (I) For the following given figure 1, calculate the quantity of smooth plaster inside the rooms and ceiling. (II) A frustum of circular cone has base radius 0.6 m, tip radius 0.3 m and height 1.2 m. Determine its volume and surface area. 	04
((a) (b)	Write the detailed specification for the cement plaster in CM (1:6) on walls. Explain in brief different types of detailed estimate. OR	07 07
	(b)	Explain with suitable example long wall- short wall method of preparing building estimate.	07
Q.3	(a) (b)	Write the detailed specification for the first class brickwork in CM (1:6). Enlist different types of contract and explain any one in detail. OR	
Q.3	(a) (b)	Define tender and draft a typical tender notice for civil engineering works. Explain in brief various principles of writing good specifications.	07 07
Q.4	(a) (b)	Explain in detail various reasons for termination of contract. What is rate analysis? Explain in brief various factors affecting the rate analysis.	07 07
Q.4	(a) (b)	Enlist the various methods of valuation and explain any one in detail. Write short note on: 1. Scrutiny of tender 2. Classification of tender	07 07
Q.5	(a)	Define the following terms: 1. Scrap value 2. Estimating 3. Cost 4. Salvage value 5. Book Value 6. Free hold property 7. Lease hold property	07
	(b)	Work out rate analysis for Cement Concrete (1:4:8) for foundation. OR	07
Q.5	(a) (b)	What is valuation? Explain in brief various purposes of Valuation. A motor cycle was purchased in RS.80, 000/- assuming its salvage value at the end of 6 years to be Rs. 20,000/ Determine the amount of depreciation for each year by (i) Straight line method (ii) Constant percentage method.	07 07

Fry: 1



Note:-All walls use 30 cm Thick

Dood - WINDOW schedule .-

D1 = 1.2×2.1 m

D2 = 1 x 2-1 m

01 = 1.2 x2.1m

W12 1.5 x1.5 m

W2= 1.2x1.2m

V 2 0.6 Lu.6m

