Roll No.												
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PRESIDENCY UNIVERSITY

BENGALURU

End - Term Examinations - MAY 2025

School: SOE	Program: B. Tech-CIV			
Course Code: CIV3001	Course Name: Estimation, Costing and Valuation			
Semester: VI	Max Marks: 100	Weightage: 50%		

CO - Levels	CO1	CO2	CO3	CO4	CO5
Marks	30	42	28		

Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Do not write anything on the question paper other than roll number.

Part A

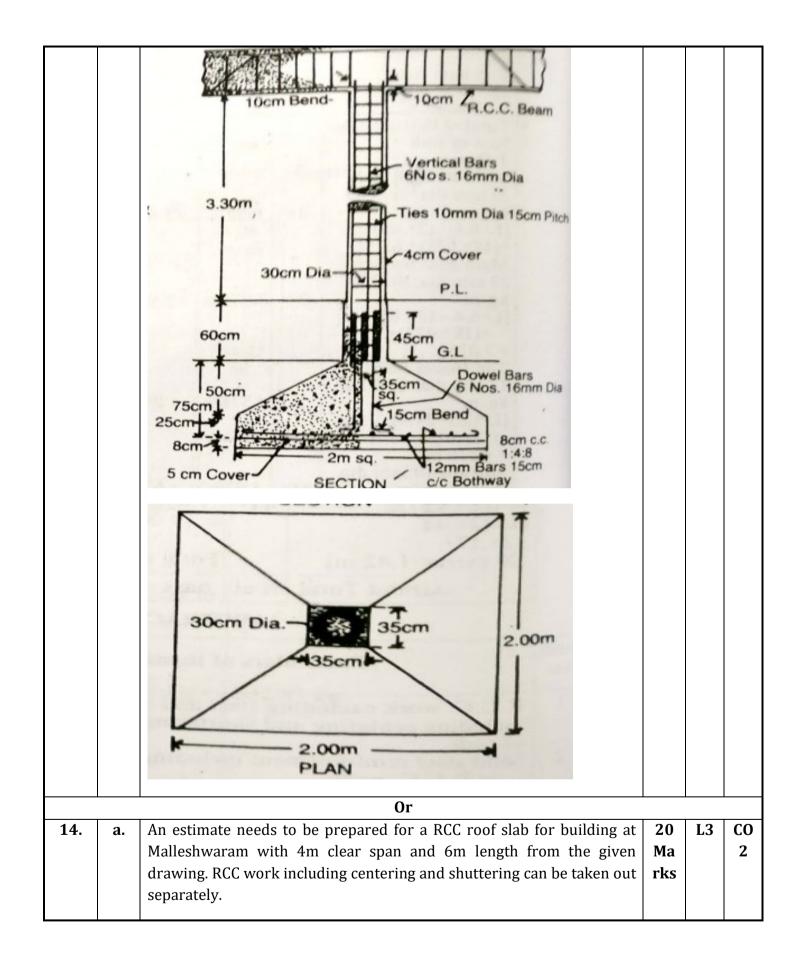
Answer ALL the Questions. Each question carries 2marks.

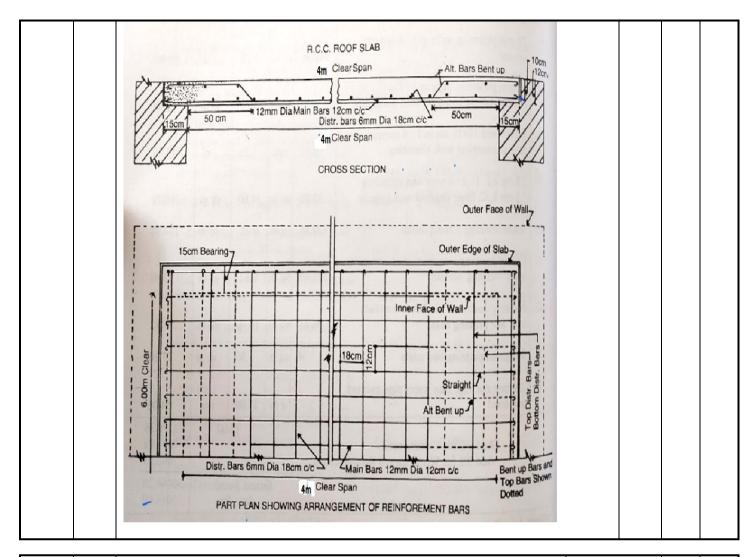
10Q x 2M=20M

1.	Explain the method of preparing preliminary estimate for roads and highways.	2 Marks	L2	CO1
2.	List any four types of estimate.	2 Marks	L1	C01
3.	List any four types of contract.	2 Marks	L1	CO1
4.	List the unit of measurement for Damp proof course, brick works, pointing and skirting.	2 Marks	L1	CO1
5.	List any two methods of Preliminary estimate.	2 Marks	L1	CO1
6.	List two methods of estimation of buildings.	2 Marks	L1	CO2
7.	Explain the term valuation of buildings.	2 Marks	L2	CO3
8.	Explain sinking fund with a formula.	2 Marks	L2	CO3
9.	Explain obsolescence in valuation of buildings.	2 Marks	L2	CO3
10.	List any two purpose of valuation of buildings.	2 Marks	L1	CO3

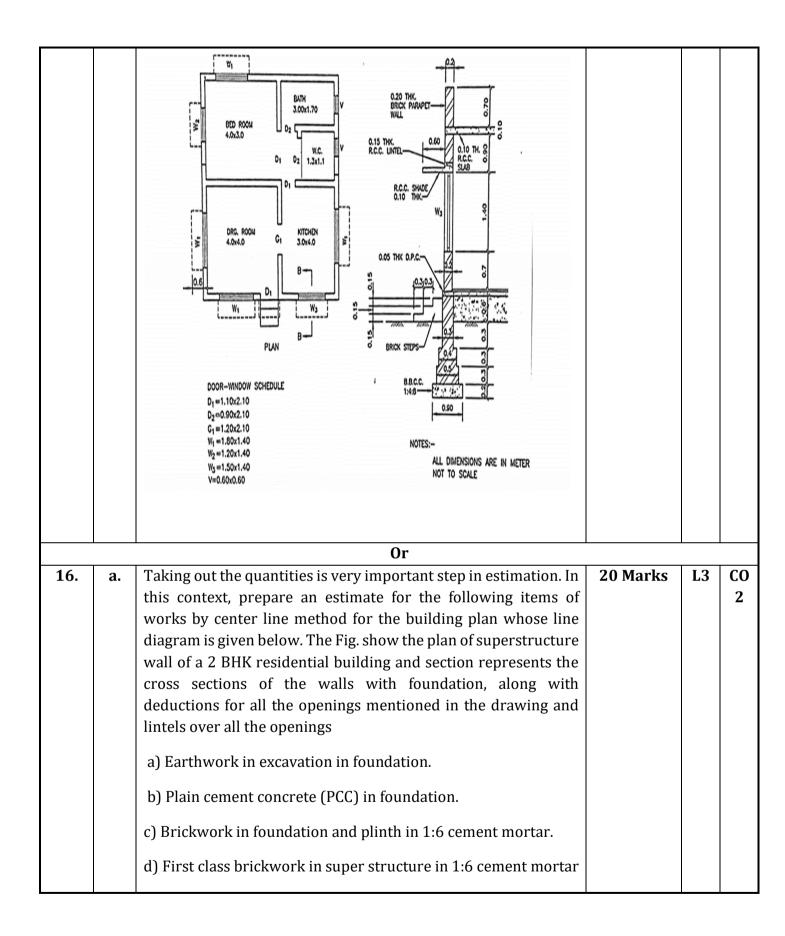
Part B

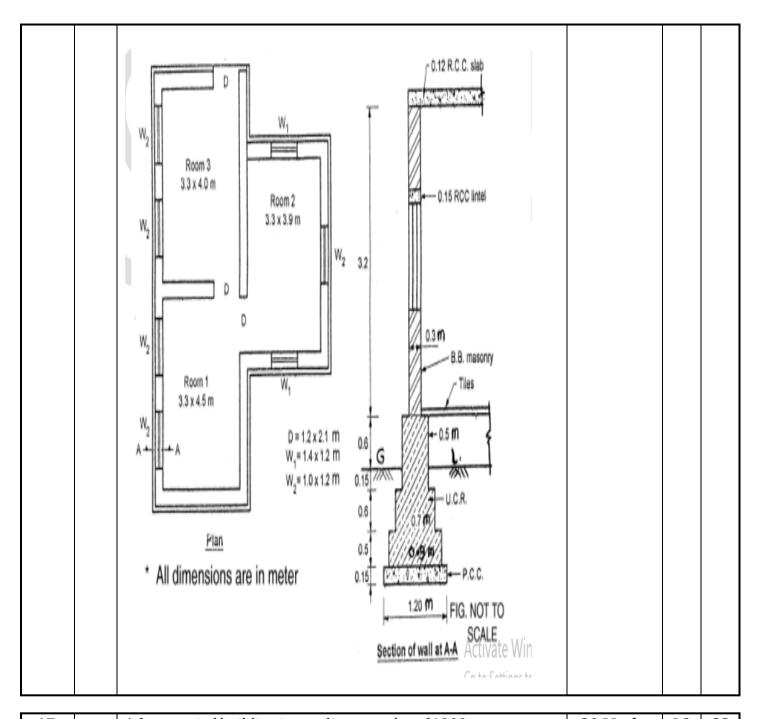
		Answer the Questions.	Total	Marks	80M	[
11.	a.	Answer the Questions. Prepare an estimate which needs to be prepared in short duration of time for a building at Rajanukunte having a carpet area of 20000 sq. ft, given the following data. It may be assumed that 35% of built-up area will be taken up by corridors, verandahs, lavatories, staircases, etc. and 11% of built up area will be occupied by wall and other supports. (i) Plinth area rate - Rs. 1000.00 per sq. m (ii) Extra for special Architectural treatment – 1% of the building cost (BC) (iii) Extra for water supply and sanitary installation – 5% of the building cost	Total		L3	CO 1
	b.	(iv) Extra for electrical installations – 12% of Building cost (v) Extra for services – 5% of the building cost (vi) Contingencies – 3% (vii) Supervision charges - 8% Explain revised and supplementary estimate.	E Ma	rlzc	L2	СО
	D.	Explain revised and supplementary estimate.	5 Marks		LL	1
		0r				
12.	a.	Explain the various objectives of an estimation.	15 Ma	arks	L2	CO 1
	b.	Explain preliminary estimation.	5 Marks		L2	CO 1
12		Fig. 1. shall be a DCC and the formation of the AVIII and AVIII an		20	1.2	60
13.	a.	Figure shown below is a RCC column for a construction site at Vijag with foundation footing. Prepare the estimate for the following work. A) Earthwork in excavation in foundation, B) Cement co 1:4:8 at the base C) RCC work 1:2:4 in footing D) RCC work 1 column and E) Steel reinforcing bar.	items ncrete	Ma rks	L3	2





15.	a.	Estimate the quantities of the following items of a residential	20 Marks	L3	CO
		building from the given plan and section shown in the figure by			2
		center line method.			
		A) Earth work in excavation in foundation			
		B) Lime concrete in foundation			
		C) I class Brickwork in 1:6 cement mortar in foundation and			
		plinth			
		D) 2.5 cm thick Damp proof course			





17.	a.	A four storied building is standing on a plot of 1000 square meter	20 Marks	L3	CO		
		near Malleshwaram. The plinth area of each storey is 500 square			3		
		meter. The building is RCC framed structure and the life of the					
		building is 60 years. The building fetches a rent of Rs. 2000 per					
		month. Work out the capitalized value of the property on the					
		basis of 7% net yield. For sinking fund 4% compound interest					
		may be assumed. Cost of land is Rs. 3000 per square meter.					
		Assume a) Repairs as 10% of gross income, b) Municipal tax at					
		20% of gross rent, c) property tax at 3% of gross rent, d)					
		Insurance premium 2% of gross rent, e) Other miscellaneous					
		charges at 1% of the gross income. Assume the sinking fund					
		required to be accumulated at the rate of Rs. 200 per square					
		meter of plinth area.					
	Or						

18.	a.	Explain the terms valuation, scrap value, gross income and net	20 Marks	L2	CO
		income also state the purpose of valuation of buildings.			3