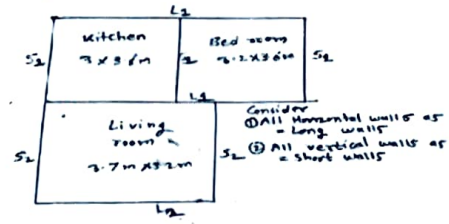
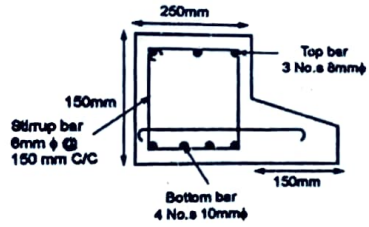
SHREEYASH PRATISHTHAN'S
Shreeyash Technical Campus
SHREEYASH COLLEGE OF ENGINEERING AND TECHNOLOGY (POLYTECHNIC), AURANGABAD

Assignment No. 03

Program Name:- Civil Engineering	**Total Marks 20**
Program Code :- CE	
Semester:- Fifth	
Course Title:- Estimation and Costing	
Course Code :- 22503	
Assignment Topic Name :- Detailed Estimate	

CO's Correlation	Question No.	Questions	Marks Distribution
CO3	1	State the data required for detailed estimate.	2
	2	Define centage charges	2
	3	Explain centre line method of taking out quantities.	4
	4	Figure no.1 shows a plan of building and section of wall. Calculate the following quantities by any method. i) Excavation for foundation ii) U.C.R. masonry in CM (1:6) in foundation and plinth. iii) B.B.Masonry in super structure in CM 1:5 iv) Mosaic tiled flooring in all rooms.  Centre line Plan	4
	5	A R.C.C Lintel size 250 X 150 mm and clear span of 1.5 m is reinforced with 4 bars of 10mm Φ@ bottom and 3 bars of 8 mm Φ@ top. The stirrups of 6mm Φ are provided 150 mm c/c. bearing of lintel is 150 mm. Calculate total quantity of steel reinforcement. 	4
	6	A simply supported beam resting on two wall supports of 300 mm thick with clear distance between supports 4500 mm. The reinforcement provided in the beam as follows. Calculate quantity of steel in beam.	4

Top bar	Bottom bar	Bent up bar	Stirrups
2 Nos-10 ϕ	4 Nos-12 ϕ	2 Nos-16 ϕ	8 ϕ @ 150 c/c mm

Course Coordinator
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