

PARUL UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
Diploma Engineering, Mid semester Examination

Semester: 5th
Subject Code: 03605305
Subject Name: Estimating, Costing and Valuation

Date: (9/8/2022)
Time: (1hr: 30min)
Total Marks: 40

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. English version is considered to be Authentic.

Q.1 Answer any six out of Ten. (2 Marks Each) (12)

1. Define Estimating and Costing.
2. Write Modes Of Measurements Of Following Items: Skirting, DPC, Dado , Brick masonry for partition wall
3. Write format of abstract sheet and measurement sheet
4. Enlist data required for preparing an estimate.
5. Write value of hook length?
6. Write Service Unit Of following items:
 1. School 2. Hospital 3. Jail 4. Water tank
7. Enlist Different Methods Of Approximate Estimate.
8. Enlist methods of preparing detail estimate.
9. Write formula for Weight of steel.
10. Define GST.

Q.2 A) Enlist types of estimate and explain anyone in detail. (03)

OR

- A) Write qualities of good estimator. (03)
- B) Write Short note on SOR (03)

OR

- B) Enlist methods of preparing approximate estimate and explain anyone or two methods in detail. (03)
- C) Write Short note on Prime Cost. (04)

OR

- C) Prepare a preliminary estimate of a building project with a total plinth area of all buildings of 2300 sq m. Given that- (04)
- i. Plinth area rate – Rs. 3000.00 per sq m.
 - ii. Extra for special Architectural treatment – 1 1/2% of the building cost.
 - iii. Extra for water supply and Sanitary Installations – 5% of the building cost.
 - iv. Extra fo internal installations - 20% of the building cost.
 - v. Extra for services – 12% of the building cost.
 - vi. Contingencies – 3%
 - vii. Supervision charges- 15%
- D) Write Short note on contingency charges. (04)

Q.3 A) Workout quantities of Earthwork in Excavation for foundation of Residential Building from Fig.1 (03)

OR

- A) Calculate BBCC for foundation from (Fig. 01) (03)
- B) Calculate Brick masonry up to Plinth from (Fig. 01) (03)

OR

- B) From Fig 2.Find out quantity of straight bars and bent up bars for beam (03)
- C) From Fig.2 Find out quantity of formwork for the given beam. (04)

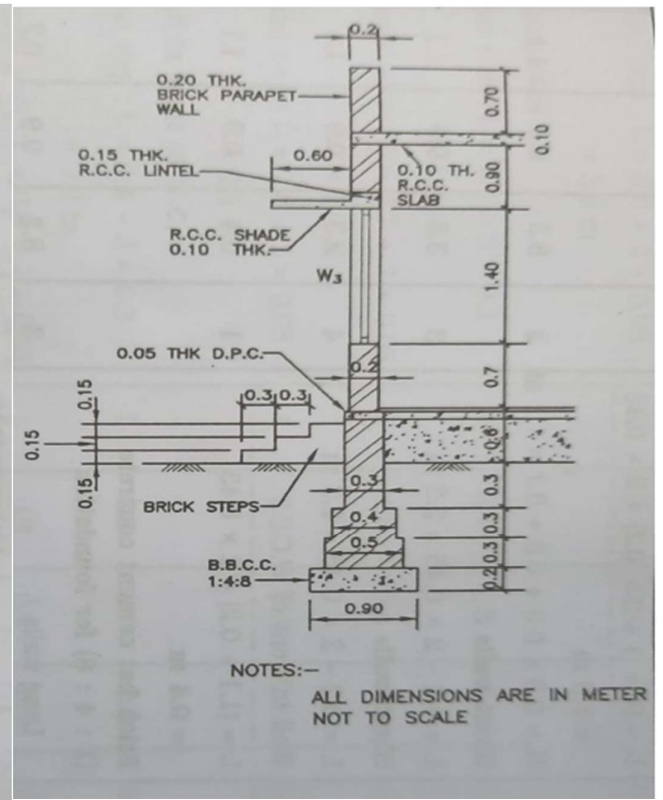
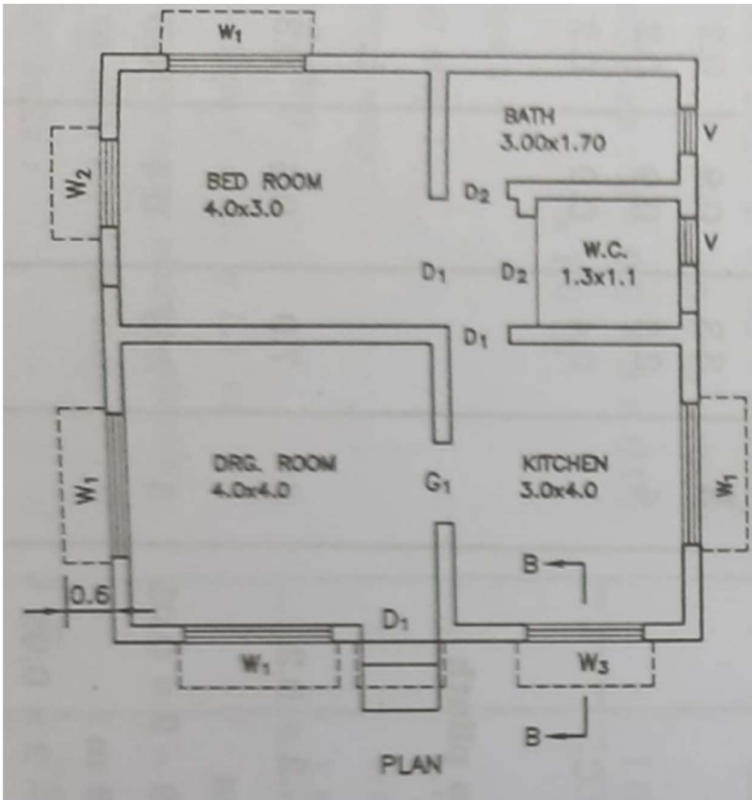
OR

- C) From Fig.2 Find out quantity of stirrups for the given beam. (04)
- D) Calculate smooth cement plaster from (Fig. 01) (04)

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DOOR-WINDOW SCHEDULE

D₁ = 1.10x2.10
D₂ = 0.90x2.10
G₁ = 1.20x2.10
W₁ = 1.80x1.40
W₂ = 1.20x1.40
W₃ = 1.50x1.40
V = 0.60x0.60

Figure - 1

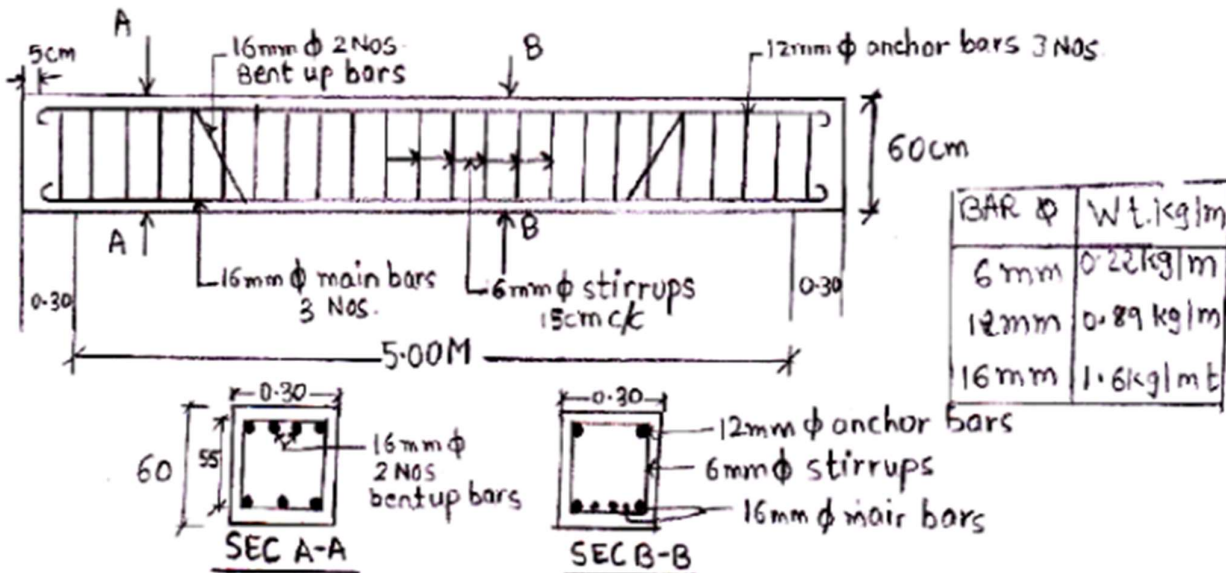


Figure - 2