

Roll No.

Total No. of Pages : 03

Total No. of Questions : 08

M.Tech. (CTM) (Sem.-2)
BUILDING COST AND QUALITY MANAGEMENT
Subject Code : CT-508
Paper ID : [A2026]

Time : 3 Hrs.

Max. Marks : 100

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE questions
2. Each question carries EQUAL marks.
3. Assume any suitable data if required.

1. Analyse the rate of the following items :
 - i) Brickwork in 1st floor with cement-sand mortar 1:4,
 - ii) D.P.C. in plinth 25 mm thick cement concrete [10+10]
2. Discuss any two different tests for bricks and two for fine aggregates with their procedure. [4×5]
3. Discuss in details :
 - i) Cash book.
 - ii) Measurement book and its entry.
 - iii) Preparation of bills for payment.
 - iv) Measurement book. [4×5]
4. Describe in detail the arbitration, its procedure, and appointment of an arbitrator. [20]
5. A building is shown in Fig. 1 with necessary details. Estimate the cost of construction for foundation upto P.L. and including flooring. Assume suitable flooring materials. [20]
6. Discuss the following :

Completion report of a project; Issues of completion report. [10×2]

7. For the building as shown in Fig. 1, estimate the cost of construction for Rain water pipe, complete sanitary fitting and water supply fittings in the bathrooms (including WC) and kitchen. [20]

8. A RCC (1:1.5:3) rectangular beam 4.5 m overall length is reinforced as shown in the figure. The beam is supported on 300 thick walls. The slab thickness is 150 mm. Estimate the quantities of steel required with sketches of steel bars shape and required anchorage. Also, estimate the cost of reinforcement and concrete for the construction of the beam without the flange. [10+10]

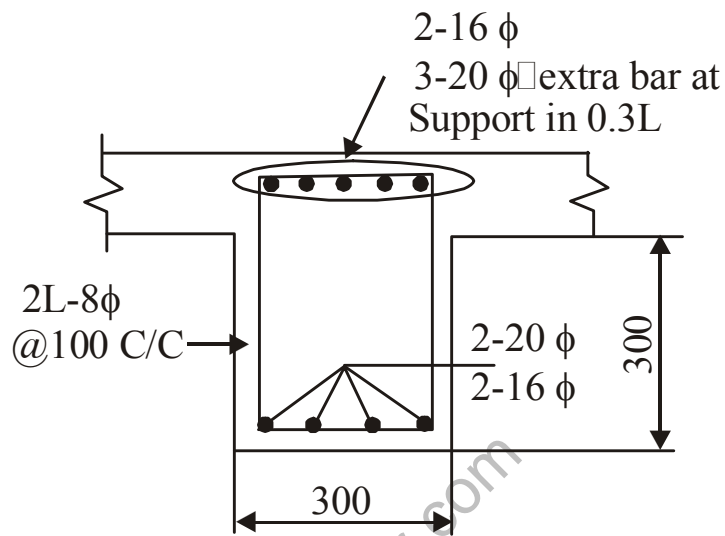


Figure - 2

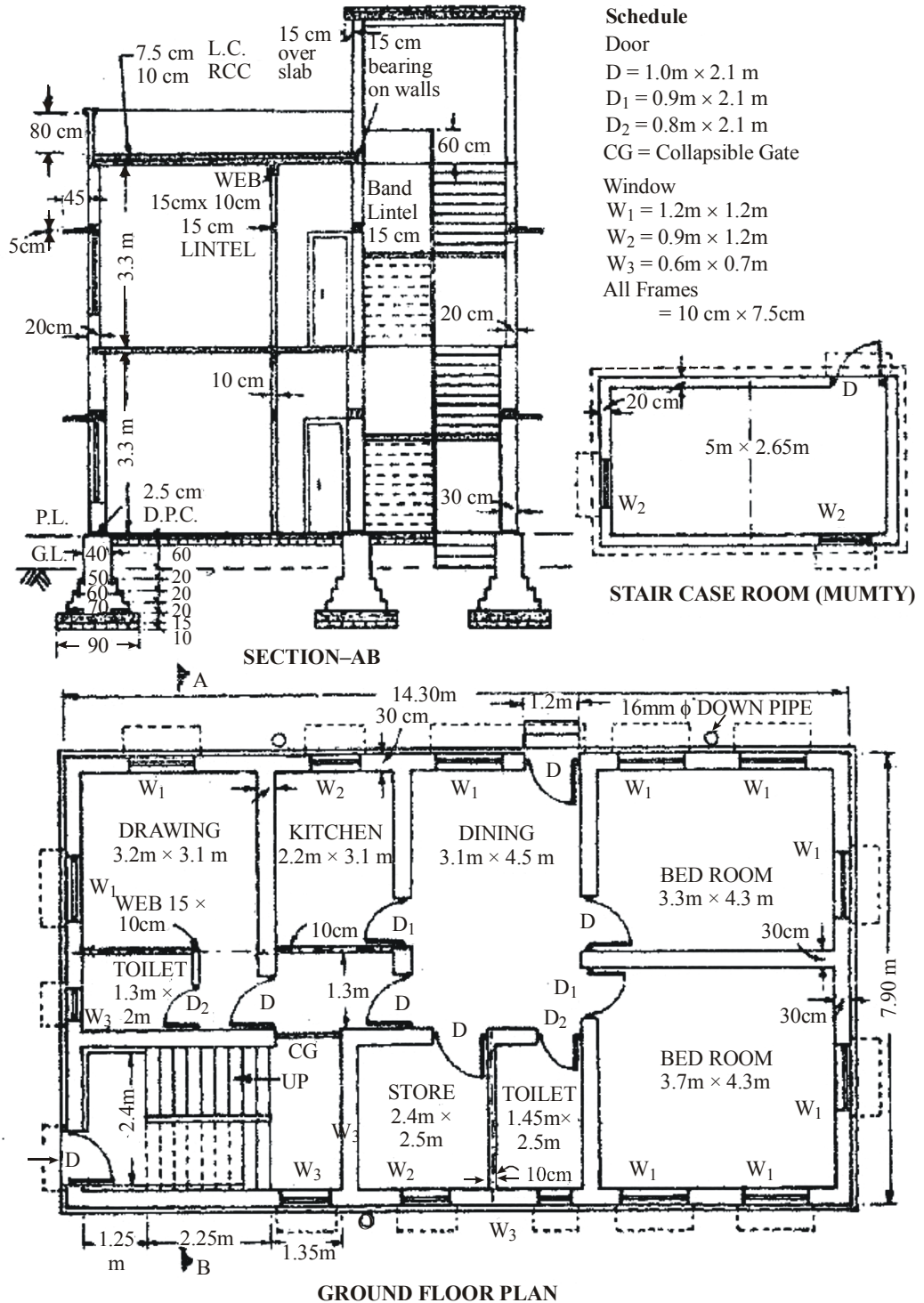


Figure -1