

PARUL UNIVERSITY
FACULTY OF ARCHITECTURE
B. Arch./B.ID, Summer 2017-18 Examination

Semester: 6
Subject Code: 01101352

Date: 07/05/2018
Time: 10:00 am to 12:00 pm
Total Marks: 50

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions whenever required.
4. Draw suitable sketches whenever required.

Q.1 Work out the quantity of items listed below of servant quarter show in the fig.1 **(10)**

1. Earthwork in cu.m.
2. P.C.C. for foundation in cu.m.
3. 2nd class brick masonry in cu.m.
4. Total reinforcement of steel bars in kg (#4-12 ϕ , 8mm@135mm c/c)

Q.2 Attempt any five out of the following six. **(20)**

- 1) Define rate analysis and write purpose of rate analysis.
- 2) Write down the objectives of estimation.
- 3) Explain factors affecting rate analysis.
- 4) State the measurement units of

1. parapet wall	2. Isolated footing	3. Brick work
4. Water charges	5. Land	6. Distribution line.
- 5) Explain types of specification and explain brief specification
- 6) Write detailed specification for stone masonry in C.M.(1:6)

Q.3 Explain the following in brief. (Any five) **(10)**

1. Reinforced concrete (1:2:4) for fig 2
2. Prepare Bar bending Schedule for fig 2
3. Calculate the quantity of form work for fig 2
4. Derive the rate analysis for excavation for foundation in ordinary soil fig 2
5. Total reinforcement of steel bars in kg. for fig 2
6. Prepare labor and contractor profit measurement sheet fig 2

Q.4 Answer any two out the following three. **(10)**

- 1) Explain the role of specification in architecture field.
- 2) Explain different type of method of estimation. Explain any one in detail
- 3) Find the rate analysis of plaster of wall having 140sq.m and thickness of plaster is 12 mm. also calculate labor and contractor profit.

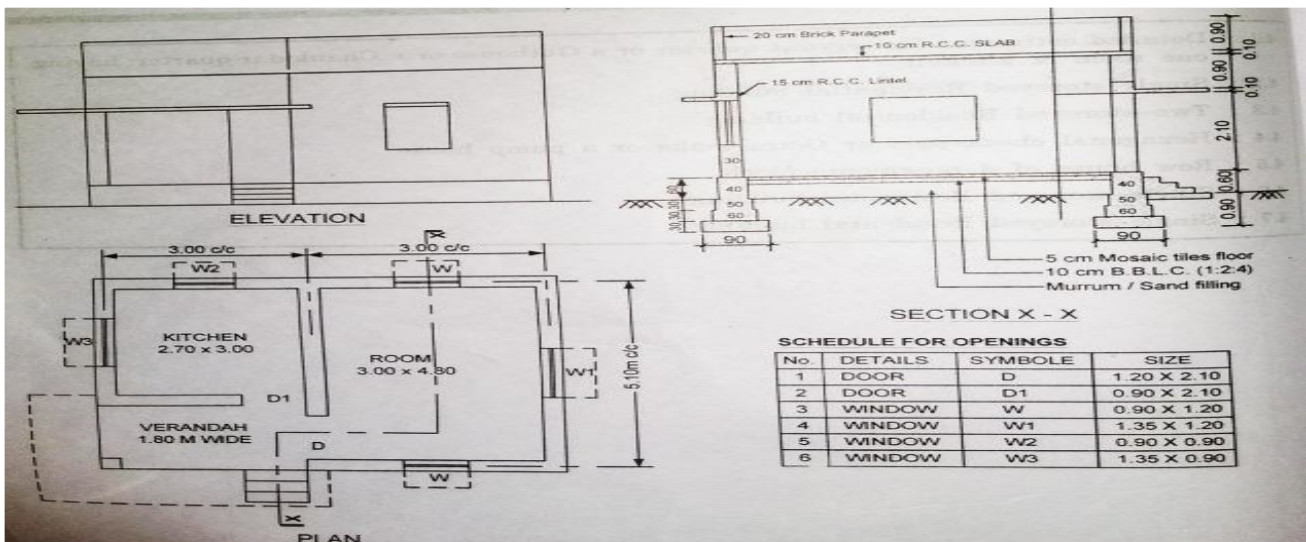


Fig:1

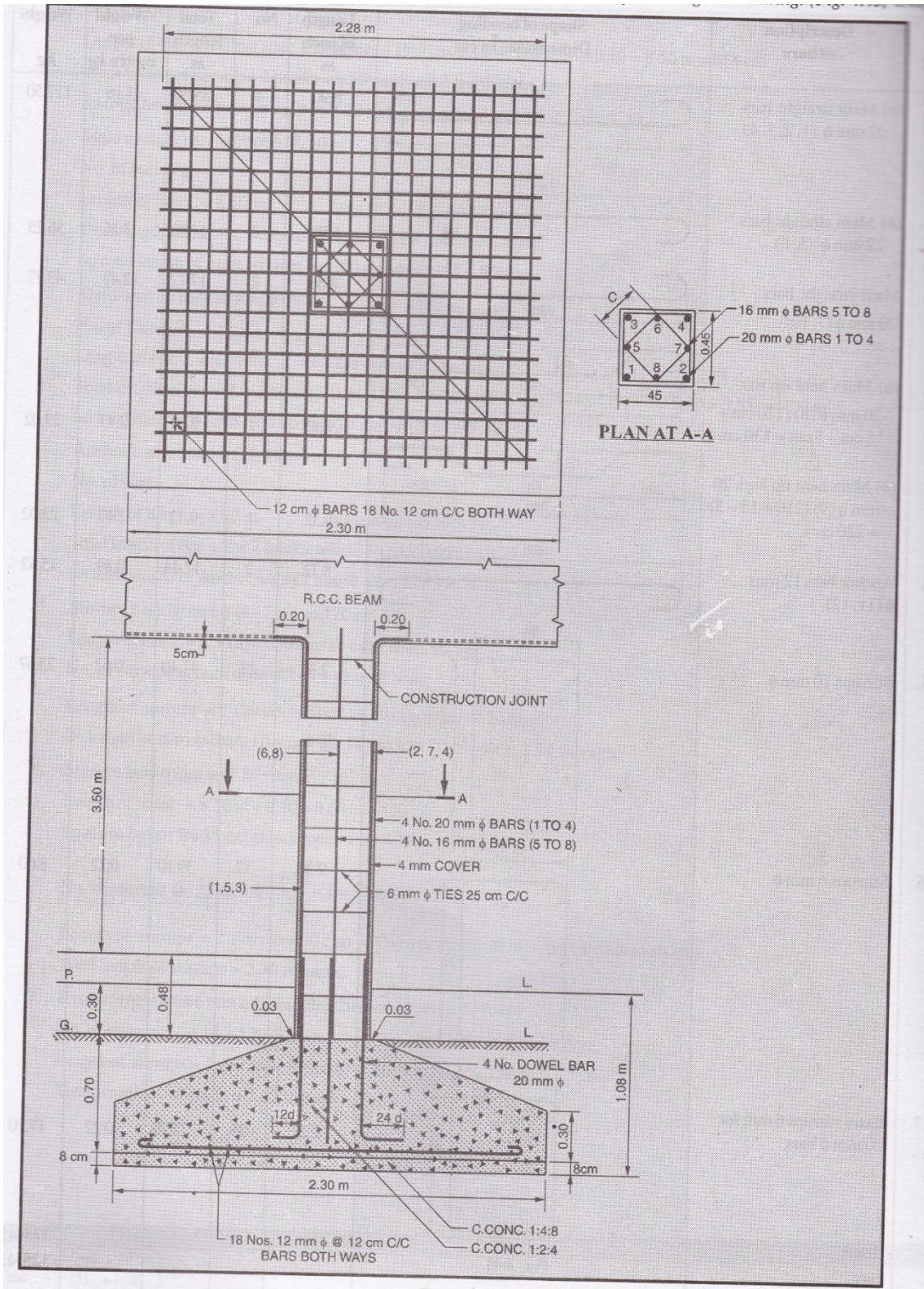


Fig. 4.46.

Figer:2