

PARUL UNIVERSITY
FACULTY OF ARCHITECTURE AND PLANNING
B. Arch./ B.ID Summer, 2018-19 Examination

Semester: 6
Subject Code: 01101352
Subject Name: Estimating, Costing & Specifications

Date: 13/05/2019
Time: 2:00 pm to 5:00 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

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)

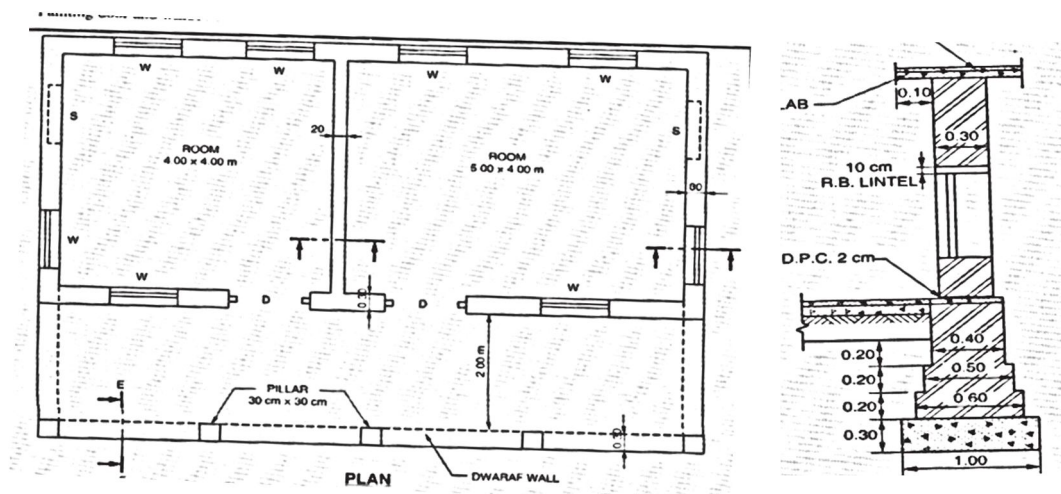
Q.3 Explain the following in brief. (Any five) **(10)**

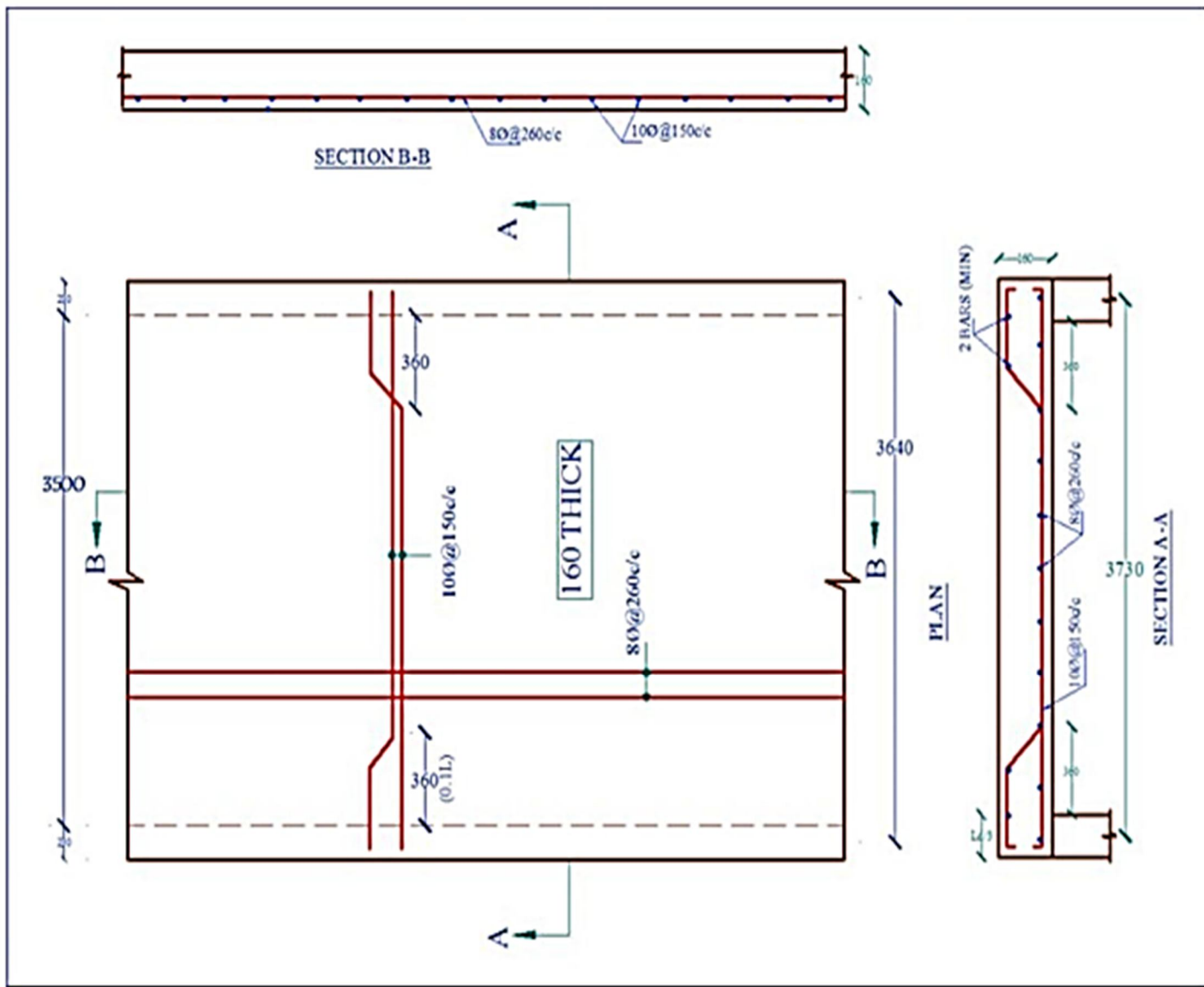
1. Reinforced concrete (1:2:4) for slab
2. Prepare Bar bending Schedule for slab
3. Calculate the quantity of form work for slab
4. Shuttering for slab.
5. Total reinforcement of steel bars in kg.
6. Prepare labor and contractor profit measurement sheet

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 140 sq.m and thickness of plaster is 12 mm. also calculate labor and contractor profit.

Fig 1





Reinforcement Detail of One way slab

fig 2