

MANIPAL UNIVERSITY**SIXTH SEMESTER B. ARCH. DEGREE EXAMINATION – MAY 2016****SUBJECT: SPECIFICATION AND ESTIMATION (ARC-312)**

Friday, May 20, 2016

Time: 14:00-17:00 Hrs.

Max. Marks: 50

✍ **PART – I is Compulsory.**

✍ **Answer any THREE questions from PART – II**

PART – I

1. **Work out the quantities of any FIVE of the following items of the building shown in fig.Q1. Assume suitable data required.**

- i) Earth work in excavation
- ii) Cement concrete bed 1:4:8 mix
- iii) Random rubble masonry
- iv) Coursed rubble masonry
- v) Damp proof course for foundation 5cm thick
- vi) Laterite masonry 23cm thick in superstructure
- vii) R.C.C Slab

(4 marks × 5 = 20 marks)

PART – II

2A. Write detailed Specification of Cement Concrete Bed 1:2:4.

2B. Write detailed Specification of Brick Work First Class.

(5+5 = 10 marks)

3A. Explain what is Contract. Explain any two types of Contracts.

3B. Write detailed Specification on Paints and Varnishes.

(5+5 = 10 marks)

4. Work out the Rate of P.C.C 1:3:6 mix in Foundation Bed using 40 mm granite metal. Take 10 cu.m. for calculation.

(10 marks)

5. Write detailed Specification of the following Materials:

- a) Glass
- b) Brick

(5+5 = 10 marks)

6A. What is Rate Analysis and explain its purposes.

6B. Explain Preliminary Estimate and Plinth Area Estimate.

(5+5 = 10 marks)

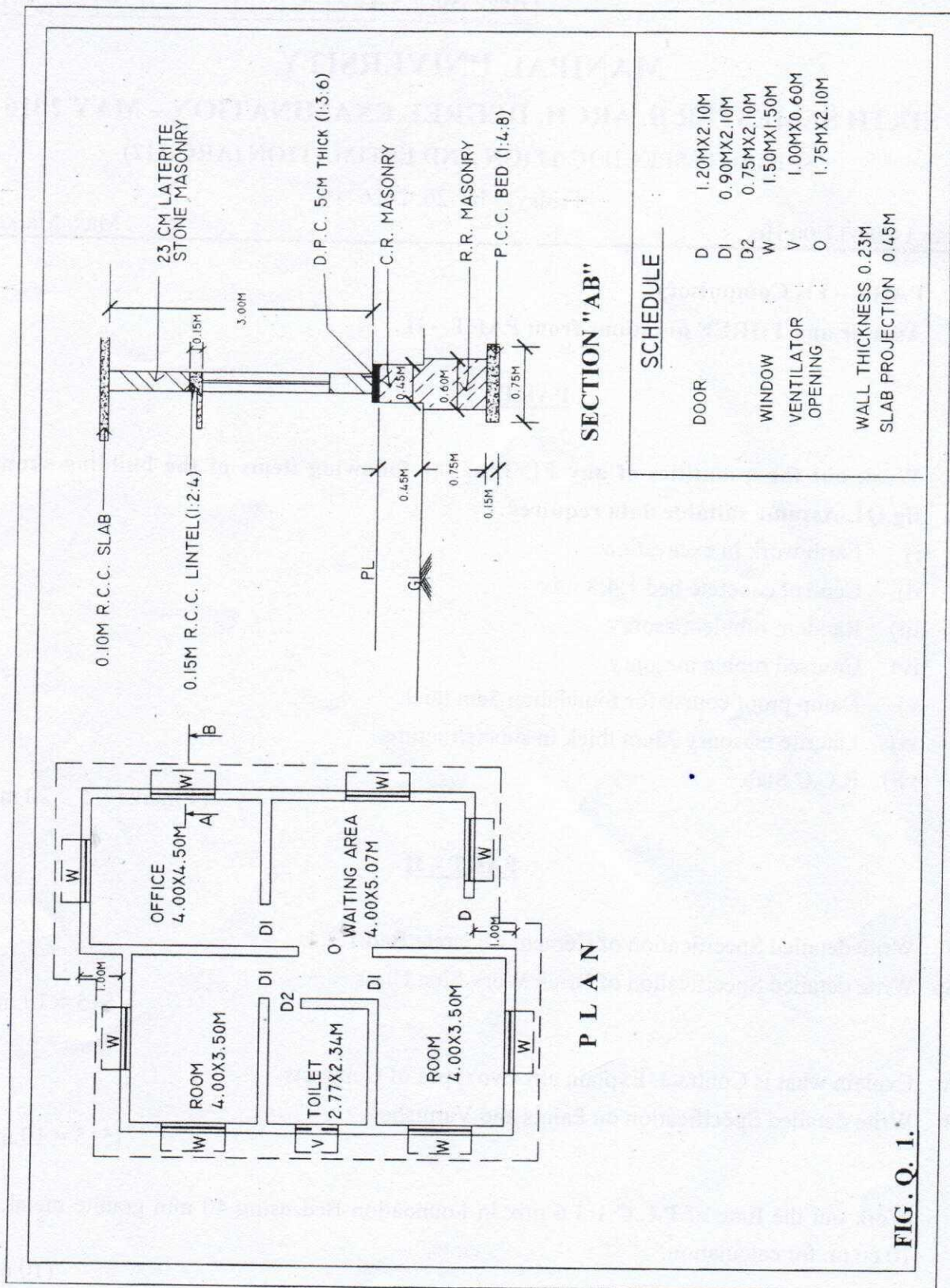


FIG. Q. 1.

