

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
Diploma Architecture – SEMESTER - V • EXAMINATION – WINTER 2016

Subject Code: 3356206

Date: 01/12/ 2016

Subject Name: Estimating & Costing

Time: 10:30 AM TO 12:30 PM

Total Marks: 50

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Use of programmable & Communication aids are strictly prohibited.
5. Use of only simple calculator is permitted in Mathematics.
6. English version is authentic.

- Q.1 (a)** Define any four from following terms. **04**
1. Quantity survey
 2. Estimating
 3. Specification
 4. Detailed estimate
 5. Centre line method
 6. Analysis of rates
- (b)** Explain in detail modes of measurement for following items. **06**
- | | | |
|---------------|------------------|---------------------------|
| 1. Excavation | <u>OR</u> | 1. Standard modular brick |
| 2. Concrete | <u>OR</u> | 2. Stone masonry |
- Q.2 (a)** Explain in detail “ Schedule of Rates (SOR) “. **04**
- (b)** Write detailed specification for following. **06**
1. Brickbat lime concrete (1:2:4) for foundation
- OR**
1. Reinforced Cement Concrete (RCC) (1:2:4).
- Q.3** Attempt any two from following. **10**
- (a)** Explain Lump sum contract with its advantages and disadvantages.
- (b)** Write note on:
1. Earnest money
 2. Security deposit
- (c)** Explain in detail 'TENDER'.
- Q.4 (a)** Workout the quantities of following items of work by using separate wall **15**
method. Use given typical wall footing section [Figure 1].
1. Earthwork in excavation for foundation

2. Foundation concrete CC (1:4:8)
3. Brickwork in footing
4. Brickwork in superstructure
5. C.C. (1:2:4) for RCC slab, lintel including Form work
6. Woodwork for doors, windows
7. Internal and external plaster.

Take sizes of Door D : 1.2 m * 2.1 m
 Window W : 0.9 m * 1.0 m

Consider lintel depth = 0.15 m
 Slab thickness = 0.10 m
 Cement plaster thickness = 12 mm

(b) Make Abstract sheets for first five quantities of above example.

05

OR

Write purpose of 'Analysis of Rates'.

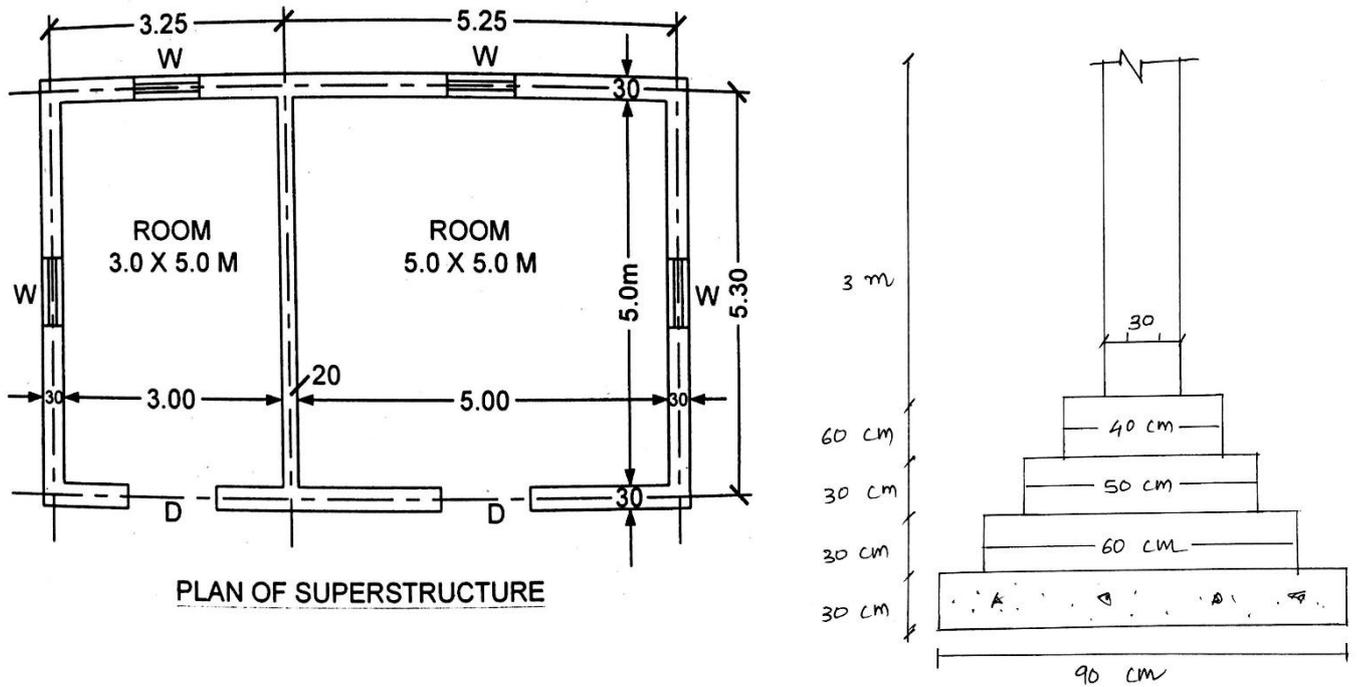


Fig. 1 (Q:4 a)