

**Roll No. \_\_\_\_\_**

**CE-704 (GS)**

**B.E. VII Semester**

Examination, November 2018

### Grading System (GS)

## Quantity Surveying and Costing

**Time : Three Hours**

**Maximum Marks : 70**

- Note:** i) Attempt any five questions.  
ii) All questions carry equal marks.  
iii) Assume suitable data.

1. Explain the following measurements of a building.
  - i) Carpet area
  - ii) Floor Area
  - iii) Circulation area
  - iv) Plinth area
2. The Plan and sectional elevation of the building are given in figure 1. Estimate the quantities for the following items of works.
  - i) RCC slabs, lintels and sunshades
  - ii) Doors and windows
  - iii) Plastering internal

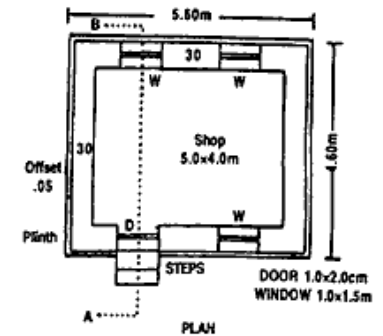
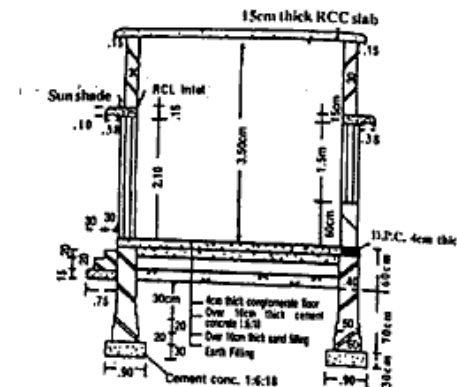
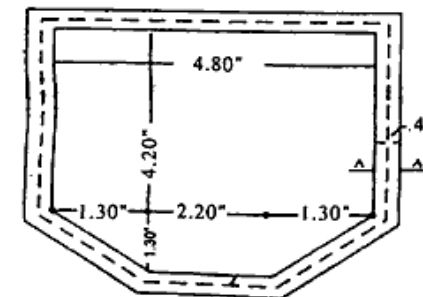
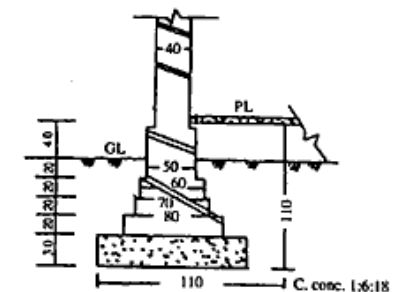


Figure 1

3. Prepare the detailed estimate for the following items of works are given in figure 2.
  - i) Earth work excavation in foundation
  - ii) Cement plastering CM 1:6
  - iii) White washing



## PLAN



Cross section at AA

Figure 2

4. Illustrate the following in brief:
  - i) General or brief specification
  - ii) Detailed specification
  - iii) Standard specification

5. In a plot of land costing Rs. 20,00,000 a building has been newly constructed at a local cost of Rs. 80,00,000 including sanitary and water supply works, electrical installations, etc. The building consist of four flats of four tenants. The owner expects 8% return on the cost of construction and 5% of return on the land. Calculate the standard rent for each flat of the building assuming.
- The life of the building is 60 yrs and the sinking fund will be created on 4% interest basis.
  - Annual repair cost 1% of the cost of construction.
  - Other outgoings including taxes at 30% of the net return on the building.
6. Discuss the following terms: (Any six)
- Types of Lease
  - Mortgage
  - Escalation
  - Methods of Depreciation
  - Annuity Head rent
  - Deferred income
  - Deferred annuities
  - Single rate Y.P.
7. a) Define the procedure for preparation of reports.  
b) State how will you prepare a report on estimate of Box culvert?
8. Prepare a report on estimate for the following items in Single storey Residential building.
- Sub structure
  - Super structure

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