

FIFTH SEMESTER DIPLOMA EXAMINATION IN ENGINEERING/  
TECHNOLOGY—MARCH, 2014

**QUANTITY SURVEYING – II AND VALUATION**

(Common to CE, EV and WR)

[Time : 3 hours

(Maximum marks : 100)

- [Note :— 1. Missing datas may be assumed suitably.  
2. Quantities to be worked out in standard form.  
3. Sketches to be accompanied.]

Marks

PART—A

(Maximum marks : 10)

I Answer the following questions in one or two sentences. Each question carries 2 marks.

1. Write down the standard units of following :
  - (a) Laying of 100mm dia sewer line.
  - (b) Steel roof truss.
2. What is the function of a curtain wall in a culvert ?
3. What is the additional length required for 45° bent ?
4. What is salvage value ?
5. Define depreciation.

(5×2=10)

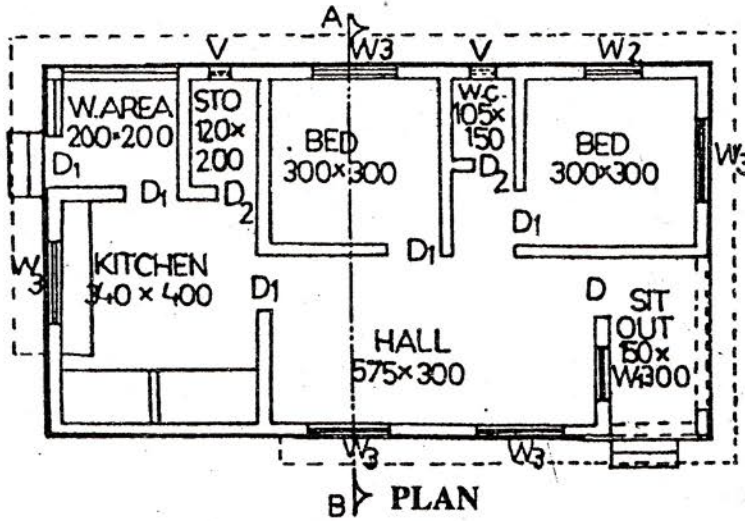
PART—B

(Maximum marks : 30)

II Answer *any five* of the following questions. Each question carries 6 marks.

1. How will you find out length of following roofing member when pitch is known :
  - (i) Principle Rafter
  - (ii) King Post
  - (iii) Tie beam
2. For the slab culvert given in fig. (1) work out quantity of earth work excavation in ordinary soil for foundation.
3. Work out the quantity of P.C.C. 1:4:8 for foundation of slab culvert given in fig (1).
4. Write specification for random rubble masonry.
5. Write specification for first class bricks.
6. Write down methods of calculating depreciation.
7. Differentiate between market value and book value.

(5×6=30)



SECTION AB	
<b>DOORS</b>	D - 10 x 210 D <sub>1</sub> - 100 x 210 D <sub>2</sub> 80 x 210
<b>WINDOWS</b>	W <sub>1</sub> - 100 x 180 W <sub>2</sub> - 100 x 210 W <sub>3</sub> - 150 x 150
<b>VENTILATORS</b>	V - 60 x 50
<b>PLINTH AREA</b>	- 75.57m <sup>2</sup>
<b>SCALE</b>	1:100
<b>DIMENSIONS IN CMS:</b>	

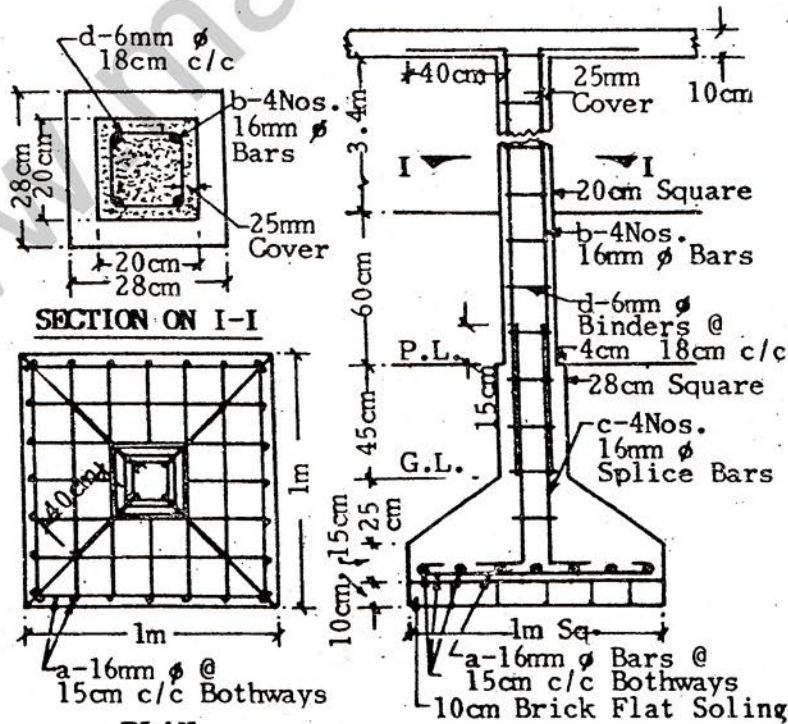
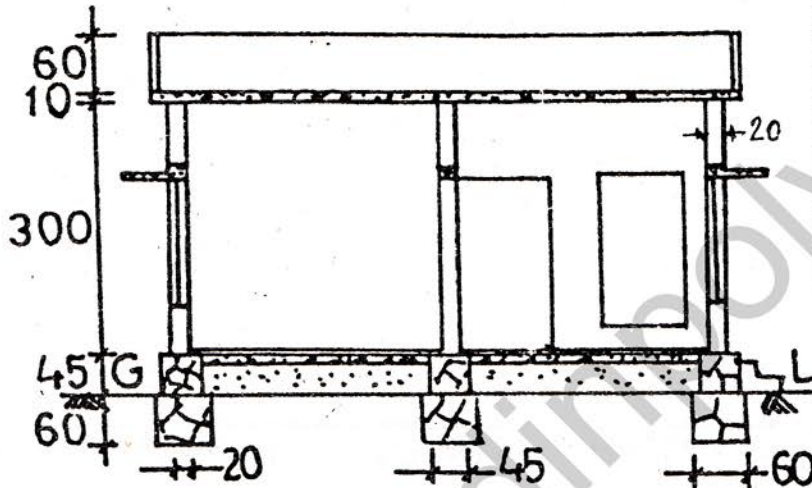


FIG (4)

PART—C  
(Maximum marks : 60)

(Answer *one* full question from each unit. Each full question carries 15 marks.)

UNIT—I

- III (a) The accompanying fig (3) shows the details of building. Work out the quantity of earth work excavation for foundation. 8
- (b) Work out the quantity of Random rubble in CM 1:6 for foundation and basement (Fig-3). 7

OR

- IV For building given in fig-3, work out the quantity of brick masonry in CM 1: 6 for superstructure. 15

UNIT—II

- V (a) Calculate the quantity of brick masonry in CM 1: 6 for abutment and wing wall for the slab culvert. (Fig-1) 8
- (b) Calculate the quantity of R.C.C. 1 : 1½ :3 using 20mm broken stones for duck slab for the slab culvert. (Fig-1) 7

OR

- VI The accompanying fig - 2 shows a retaining wall, work out the quantity of reinforcement for a length of 30m. 15

UNIT—III

- VII (a) The accompanying fig-(4) shows R.C.C. column, work out the quantity of R.C.C. 1 : 1½ :3 using 20mm broken stone. 8
- (b) Prepare a bar bending schedule for a R.C.C. column given in (Fig-4). 7

OR

- VIII (a) Write down the detailed specification for Asbestos cement corrugated sheet roofing. 8
- (b) Write down the detailed specification for white washing. 7

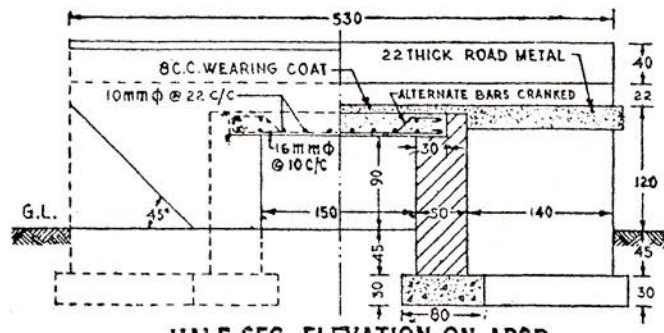
UNIT—IV

- IX What are the purposes of valuation ? Explain briefly. 15

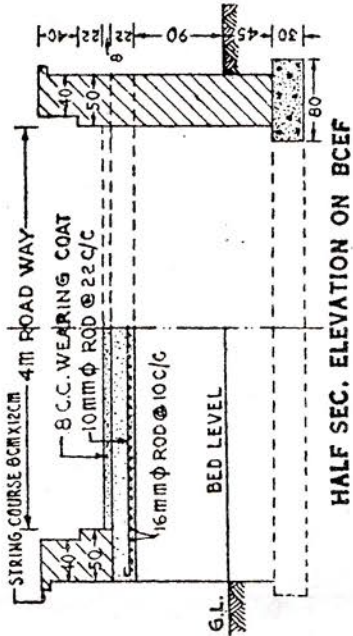
OR

- X The cost of construction of a new building according to present market rate is ₹ 8,00,000 having life of 70 years. But if the building is 15 years old. Determine the depreciation amount which should be deducted from the cost of the new building at 6% compound interest. 15

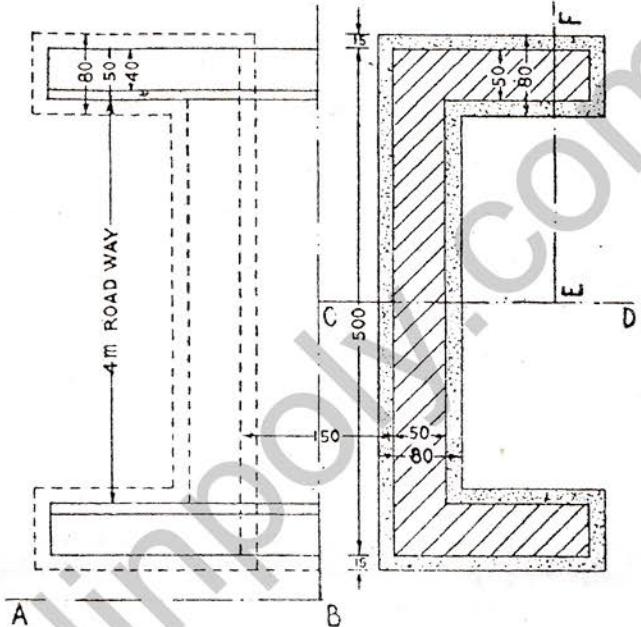




HALF SEC. ELEVATION ON ABCD



HALF SEC. ELEVATION ON BCEF



HALF SECTIONAL PLAN

FIG(1)

