

TED (10)–4007

(REVISION—2010)

Reg. No.

Signature

FIFTH SEMESTER DIPLOMA EXAMINATION IN ENGINEERING/
TECHNOLOGY—OCTOBER, 2012

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.]

PART—A

(Maximum marks : 10)

Marks

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

1. A hipped tiled roof having rise of $\frac{1}{3}$ span, what is the length of ridge piece ?
2. Write down the standard units of following :
(i) Earth work excavation for foundation.
(ii) Cement concrete work for RCC.
3. Name the structure which retains the embankment of approach roads of a bridge or culvert.
4. What is the minimum lap length required for tension reinforcement in slab ?
5. Write the difference between value and cost. (5×2=10)

PART—B

(Maximum marks : 30)

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

1. Work out the quantity of earth work excavation in ordinary soil for the building shown in figure (I).
2. Define the following :
(i) Carpet area (ii) Plinth area
3. Work out the following quantities for the septic tank given in figure (III) :
(i) Earth work excavation (ii) PCC for foundation.
4. What is specification ?
5. What are the documents need to submit for obtaining a loan from a local authority ?
6. What are the factors which affect the value of a property ?
7. Explain book value of a property. (5×6=30)

PART—C

(Maximum marks : 60)

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

UNIT—I

- III The accompanying figure (I) shows the details of building. Work out the quantity of RR in cm 1:6 for foundation and basement. 15

OR

- IV For the building given in figure (I) work out the quantity of brick masonry in cm 1:6 for superstructure. 15

UNIT—II

- V (a) Work out the quantity of brick masonry in cm 1:6 for septic tank given in figure (III). 8

- (b) Work out the quantity of plastering (20 mm thick) cm 1:2 with water proofing inside the septic tank given in figure (III). 7

OR

- VI (a) Accompanying figure (IV) shows retaining wall, work out the quantity of RCC 1:2:4 using 20 mm broken stone for a length of 30 m. 8

- (b) Work out the quantity of earth work excavation in ordinary soil for foundation for RCC retaining wall shown in figure (IV). 7

UNIT—III

- VII Prepare a bar bending schedule for a beam given in figure (II). 15

OR

- VIII (a) Write down the detailed specification for damp proof course. 8

- (b) Write down the detailed specification for wood work for doors and window shutters. 7

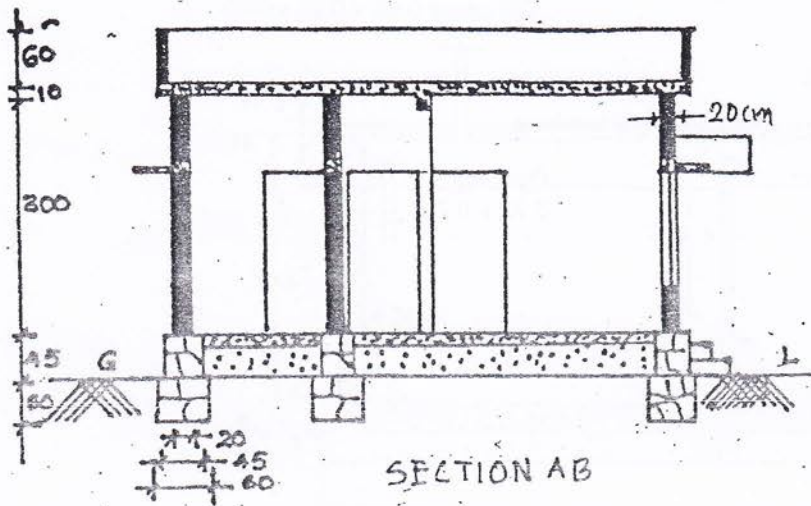
UNIT—IV

- IX How will you calculate by individual percentage basis of the standard rent of a building owned by Government for residential purpose of Government employee? 15

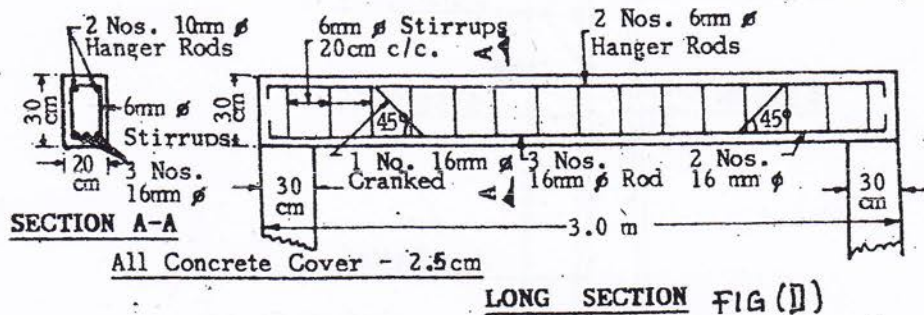
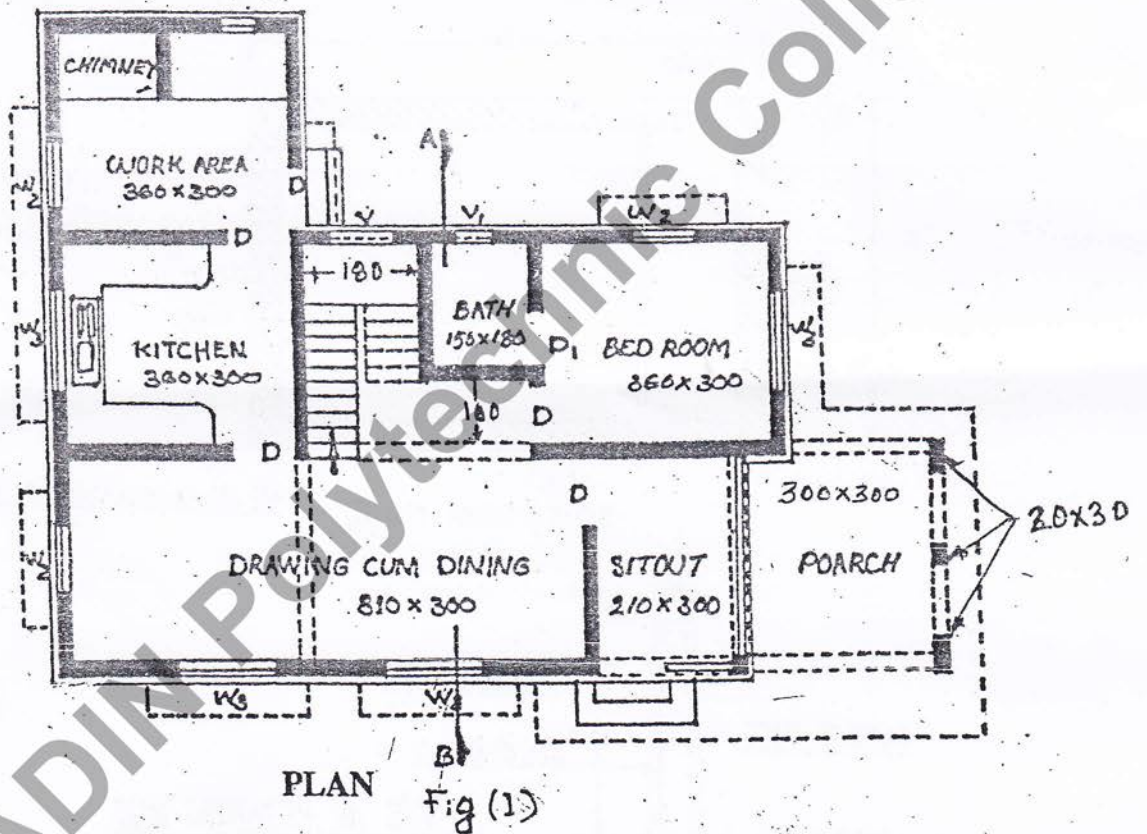
OR

- X A new building having six equal flats is constructed at a cost of ₹ 25,00,000 on a plot of land costing ₹ 90,00,000. The owner expect 12% return on the construction cost and 8% return on cost of land. Calculate the standard rent for each flat of the building considering the following data :

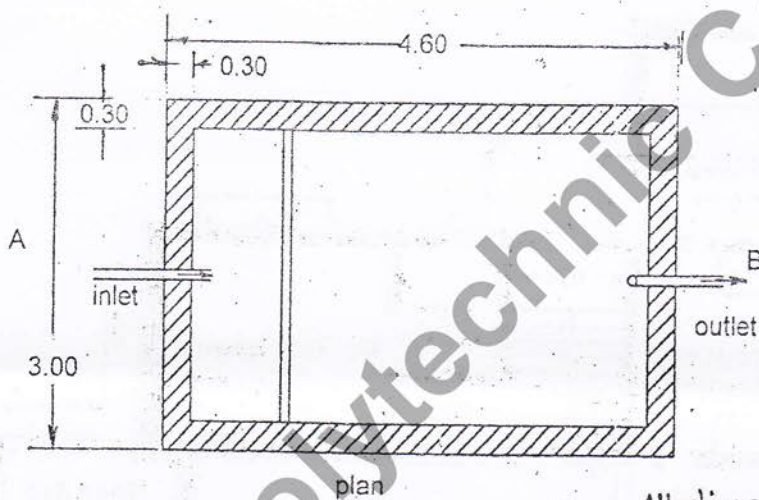
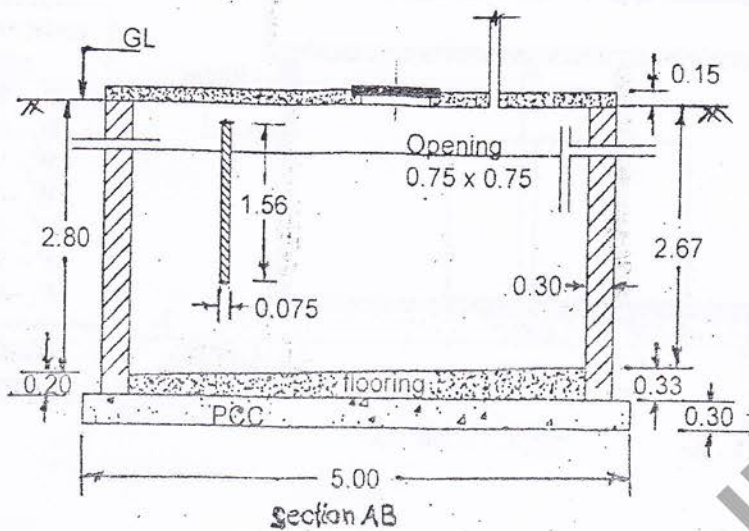
- (i) Future life of the building be 70 years.
- (ii) Interest on sinking fund be 6%.
- (iii) Scrap value 10%.
- (iv) Annual repairs at 1% of the cost of construction.
- (v) Other outgoings at 30% of net return from building (sinking fund co-efficient for 70 years @ 6% = 0.001).



SPECIFICATIONS	
D	100 x 210
D ₁	80 x 210
W ₁	50 x 150
W ₂	100 x 150
W ₃	150 x 150
V	100 x 210
V ₁	60 x 50
SCALE: 1:100	
Dimensions in CM	



CI cover 0.85 x 0.85 x 0.05



SEPTIK TANK FIG. III

All dimensions are in metres

