

TED (10)–4007

(REVISION—2010)

Reg. No.

Signature

FIFTH SEMESTER DIPLOMA EXAMINATION IN ENGINEERING/
TECHNOLOGY—OCTOBER, 2013

QUANTITY SURVEYING II AND VALUATION

(Common to CE, EV & WR)

[Time : 3 hours

(Maximum marks : 100)

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

Marks

PART—A

I Answer *all* questions in one or two sentences. Each question carries 2 marks.

1. How the length of wall plate shall be calculated in a rectangular building with hipped roof ?
2. Name the structure which constitute the end support of a bridge or culvert.
3. What are the types of specifications ?
4. What is meant by years purchase ?
5. Differentiate between book value and market value.

(5×2=10)

PART—B

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

1. Work out the quantity of flooring with C.C. 1:4:8 75 mm thick and finishing with marble tiles for the building in figure 1.
2. A school building having 30 m ×6 m outer dimensions is provided with tiled roof. The rise of roof is 1/3 span and eave projection is 60 cm. Work out the quantity of roofing with M.P. tiles.
3. Work out the quantity of earth work excavation in ordinary soil for foundation of abutment and wing wall for the culvert shown in figure IV.
4. Work out the quantity of R.C.C. 1:1.5:3 for the trough of aqueduct shown in figure V.
5. Work out the quantity of R.C.C. 1:1.5:3 using 20 mm broken stone for the roof slab of building shown in figure 1.
6. Write down the detailed specifications for cement concrete 1:2:4.
7. List the different methods of calculating depreciation. Explain any one in brief.

(5×6=30)

PART—C

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

UNIT – I

- III Figure 1 shows the details of a residential building. Prepare detailed estimate for plastering walls with cement mortar 1:6, 12mm thick for inside and outside of building. 15

OR

- IV Prepare detailed estimate for the following items of a septic tank shown in figure III.
- (a) Cement concrete 1:4:8 for foundation and flooring. 5
- (b) Brick masonry in c.m. 1:6 for walls. 5
- (c) R.C.C 1:2:4 for covering slab and baffle wall. 5

UNIT – II

- V (a) Work out the quantity of R.C.C. for well curb, steining and well cap for the figure II. 8
- (b) Prepare a detailed estimate for the earth work excavation in ordinary soil for an open well. The outer diameter of steining is 3m and depth of well is 8m. 7

OR

- VI Work out the quantity of R.R. Masonry in c.m. 1:8 for abutment and wing wall for the culvert shown in figure IV. 15

UNIT – III

- VII (a) Prepare a bar bending schedule for lintel and sunshade shown in figure VI for a length of 10m. Assume necessary cover. 8
- (b) Write down the detailed specification for the item plastering the wall with cement mortar 1:6, 12mm thick. 7

OR

- VIII For the building shown in figure I work out the quantities of R.C.C. 1:1.5:3 for :
- (a) Lintel 15cm thick throughout. 8
- (b) Sunshade. 7

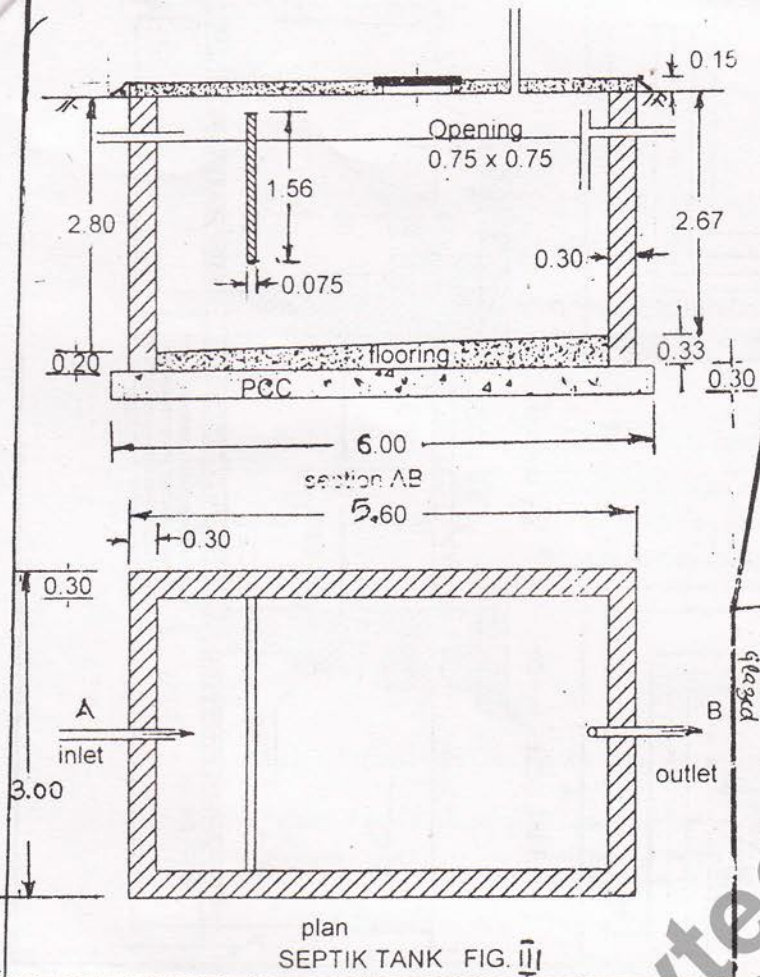
UNIT – IV

- IX An owner has decided to sell his property with a 30 year old single storied building having a total plinth area of 110 sq.m. The cost of land is 3 lakhs as compared with the adjoining areas. There is no comparable instances of letting values available in the locality but the present plinth area rate to construct such a new building has been determined from current sale price which is ₹ 8000 per sq.m. What should be sale price of the property having a total life of 80 years and when the rate of annual sinking fund interest is 5% ? 15

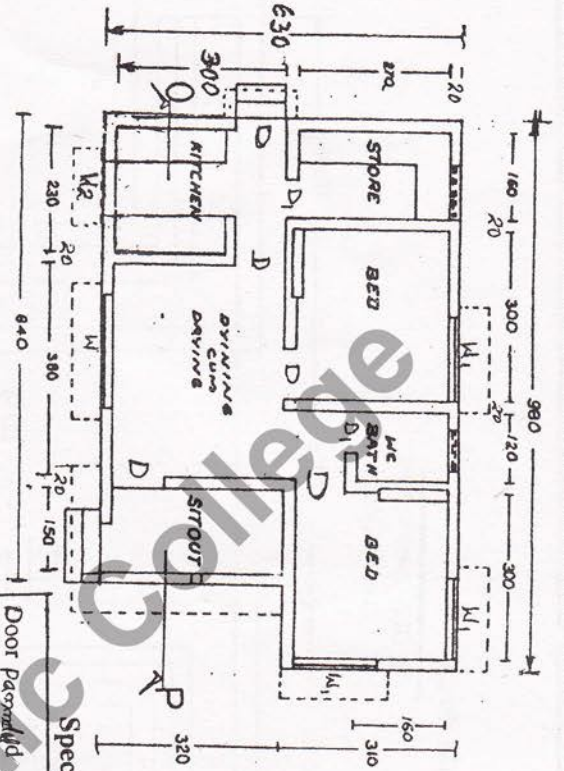
OR

- X (a) What are the different methods of valuation ? Explain any one method in detail. 8
- (b) A government employee having a pay of ₹ 15,000 per month, occupies a quarter having a plinth area of 80 sq.m. The prevailing rate per square meter of plinth area is ₹ 8,000. Calculate and suggest the amount of monthly rent payable by the 7

CI cover 0.85 x 0.85 x 0.05



PLAN



(Fig. 1)

Specification

Door	Passwd	100	x	200
"	"	75	x	20
Window	"	200	x	150
"	"	150	x	150
Ventilator	"	100	x	150
"	"	75	x	45

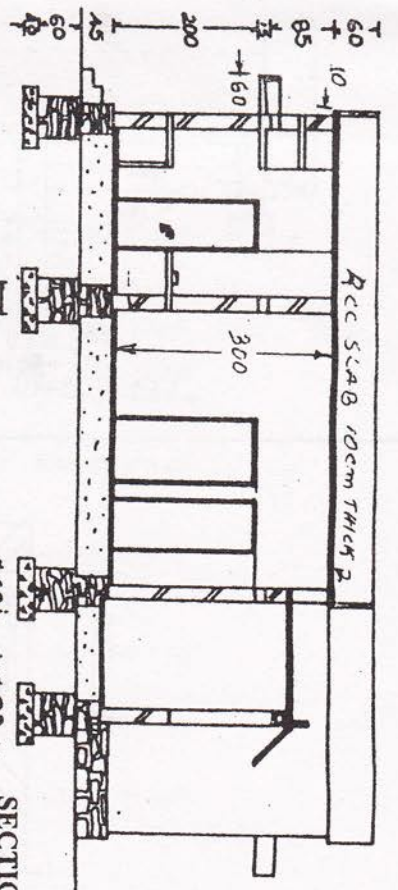


Fig. II Section of a Well foundation

(all dimensions are in cm)

