

Code RR-320105

III B.Tech. II Semester Regular Examinations April/May-2005

Set No:

1

ESTIMATION QUANTITY CONTRACTS & VALUATION

(Civil Engineering)

Time: 3 hours

Max. Marks: 80

Answer any TWO questions from part A

Part B is compulsory

PART – A

(2×16=32 marks)

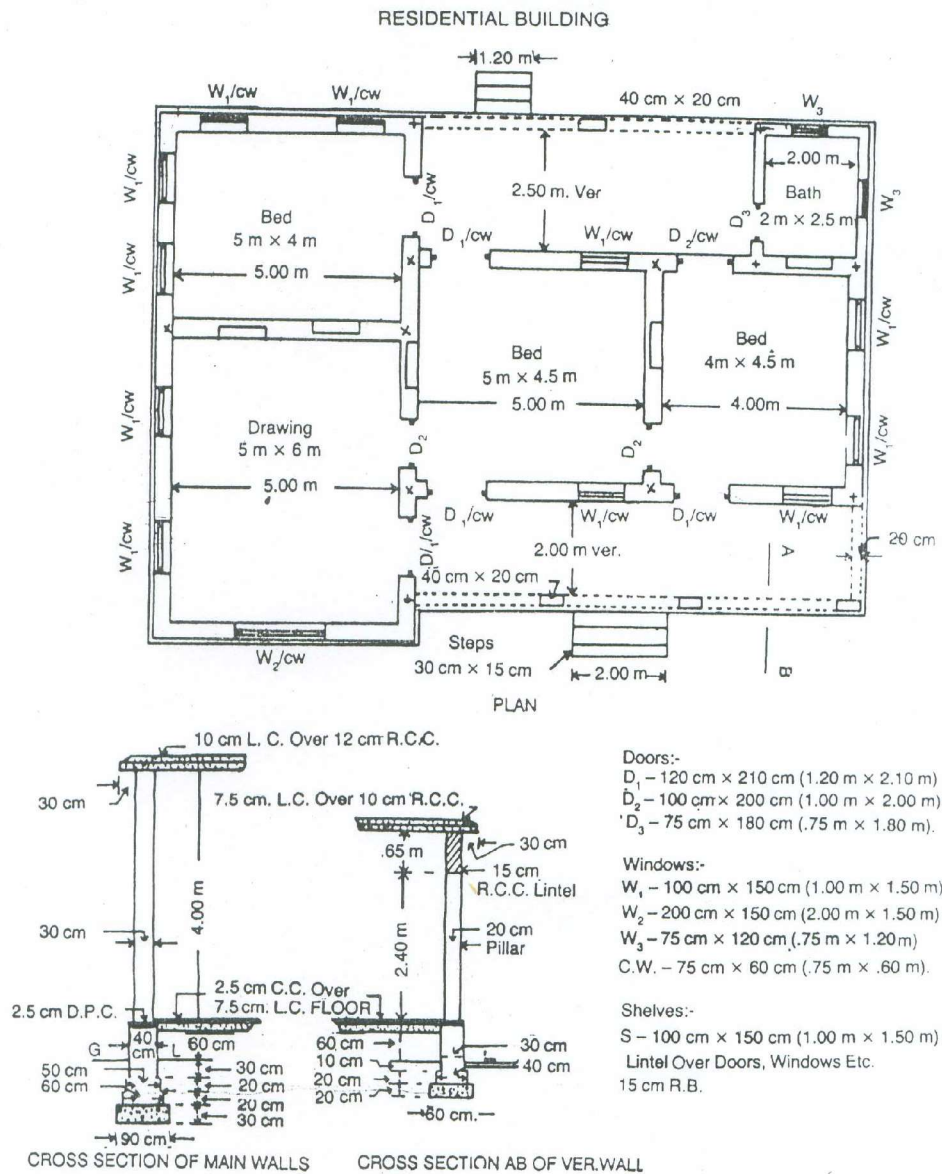
1. List out the various items of work involved in the construction of class 'A' residential building.
- 2.a) Differentiate between abstract estimate and detailed estimate.
b) Explain the advantage of centre line method over long walls and short walls method by means of a small example.
- 3.a) List out the life (period) of some of the important items of work such as different types of masonry, flooring, doors and windows and ironwork.
b) A 3 storied building is standing on a plot of land of 800sq.m. The plinth area of each storey is 350sq.m. The building is a RCC framed structure and the future life may be taken as 75years. The gross rent of building is Rs4500/- per month. Work out the capitalised value of the property on the basis of 6% net yield. Sinking fund is 4%, cost of land is Rs. 300 per sq.m. Assume any other data required suitably.

PART – B

(48 marks)

4. Estimate the quantities of the following items of a residential building shown in figure. Adopt long wall and short wall method.
 - a) Lime concrete in foundation.
 - b) First class brickwork in lime mortar in foundation and plinth.
 - c) External plastering
 - d) Sand required in plinth filling

Contd.....2



All walls of Drawing Rooms and
Bed Rooms have same section

Bath Room walls have similar
section.

Note—No beam has been shown in the plan.

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2

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Answer any TWO questions from part A

Part B is compulsory

- - -

PART – A

(2×16=32 marks)

1. Write down the various items of work involved in the construction of class 'B' residential building.
 2. Give rate analysis for:
 - a) 100 sq.m. of 2.0cm thick c.c. 1:3:6 flooring
 - b) 10 cu.m. of brick masonry in 1:6 cement mortar
- Assume suitable data and work out the rates

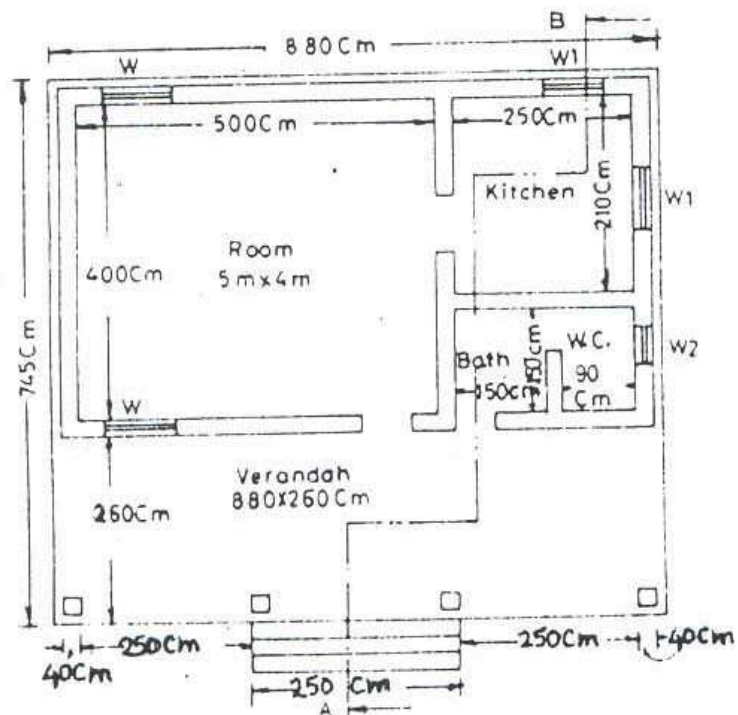
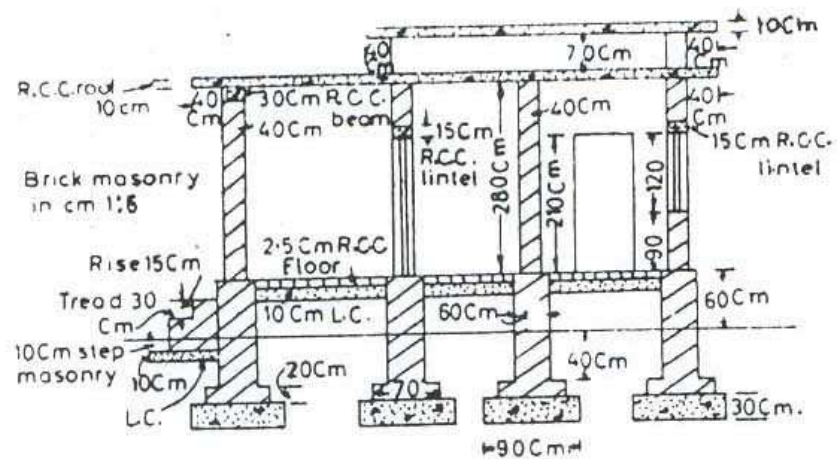
3. Write notes on the following methods of valuation of buildings.
 - a) Valuation based on the cost
 - b) Depreciation method of valuation
 - c) Development method of valuation
- d) Rental method of valuation

PART – B

(48 marks)

4. Calculate the quantities of the following items of a residential building shown in figure. Adopt centre line method.
 - a) Brick masonry in superstructure in cm 1:6.
 - b) R.C.C. roof slab in c.c.1:2:4.
 - c) 2.5cm R.C.C. flooring.
 - d) Excavation for foundation of walls.

Contd.....2



Steps:-
Rise = 15 cm
Tread = 30 cm

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Answer any TWO questions from part A

Part B is compulsory

- - -

PART – A

(2×16=32 marks)

1. Define estimating. What are the various aspects involved in the method of estimating? Explain the importance of each aspect. Support your answer with neat tabular columns if necessary.
2. List out the materials required (per unit rate for the following items of work: -
 - a) I class brickwork in cement mortar
 - b) Brick ballast cement concrete in 1:4:8
 - c) 2.5cm stone ballast cement concrete 1:2:4 over 7.5cm brick ballast lime concrete floor.
 - d) Course rubble masonry in cement mortar 1:6
- 3.a) What are the main purposes of valuation?
b) How are the following fixed?
 - i) Municipal Taxes
 - ii) Scrap value
 - iii) Market value
 - iv) Rateable value.

PART – B

(48 marks)

4. Estimate the quantities of the following items of work for a single room servant's quarter.
 - a) Earthwork in excavation of foundations.
 - b) First class brickwork in superstructure.
 - c) Wood work in doors and windows
 - d) Inside plasteringThe following details are given:
 - i) Internal dimensions – 4.0mx5.0m.
 - ii) Walls – 25cm thick above the plinth and 30cm below plinth with one footing 40cm wide and 20cm deep over 60cm wide and 15cm deep lime concrete layer.
 - iii) Foundation – 80cm wide and 100cm deep.
 - iv) Plinth height – 40cm above G.L.and height of ceiling above the floor is 3.8m.
 - v) Roof – 12cm thick R.C.C. slab overlaid by 6.0cm L.C.terracing.
 - vi) Doors – 1.0mx2.0m – one no.
 - vii) Windows – 0.8x1.2m – two no.'s.
 - viii) Shelves – 1.2x1.6m and 17m deep – one no.All lintels over door, windows and shelf are 20cm thick R.B.

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(Civil Engineering)

Time: 3 hours

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Answer any TWO questions from part A

Part B is compulsory

PART – A

(2×16=32 marks)

- 1.a) You have to prepare an estimate for providing a door in place of a window in a wall. List the items involved in preparing such estimate.
- b) Show the forms used in preparing
 - i) abstract of cost and
 - ii) material statement
2. Work out the following:
 - a) Materials required for 10 cu.m. of 1:2:4 cement concrete.
 - b) No.of cement bags required for 10 sq.m. of 2.5 cm thick cement concrete floor.
 - c) No.of cement bags required for 100 cu.m. of brick masonry in 1:6 cement mortar.
 - d) Quantity of cement, sand and composeal for 2cm thick 100 sq.m. of damp proofing course.
3. Write short notes on the following:
 - a) Sinking fund
 - b) Out goings
 - c) Depreciation

PART – B

(48 marks)

4. The plan and sectional elevation of a building are shown in figure below. Estimate the quantities of the following items of work of the building by centre line method.
 - a) Earthwork in excavation in foundation.
 - b) Lime concrete in foundation.
 - c) RCC work in roof slabs, lintels, sunshades etc.,
 - d) Steel reinforcement bars in RCC work at 2%.

Contd.....2

