

B.Tech IV Year I Semester (R13) Supplementary Examinations June 2017
ESTIMATION, COSTING & VALUATION
 (Civil Engineering)

Time: 3 hours

Max. Marks: 70

PART – A
 (Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- What is estimating and what are the different types of estimating.
 - What are the aims of specification?
 - What are the methods of determining the value of property?
 - What are the methods of calculating earthwork?
 - Define depreciation.
 - What is valuation and its objectives?
 - List out the type of contracts.
 - What is salvage value? Explain.
 - What are the errors in estimates?
 - What is the amount for overhead and contingent charges?

PART – B
 (Answer all five units, 5 X 10 = 50 Marks)

UNIT – I

- 2 Write down the detailed specifications of the following items of work.
- Cement concrete and RCC work.
 - Painting.

OR

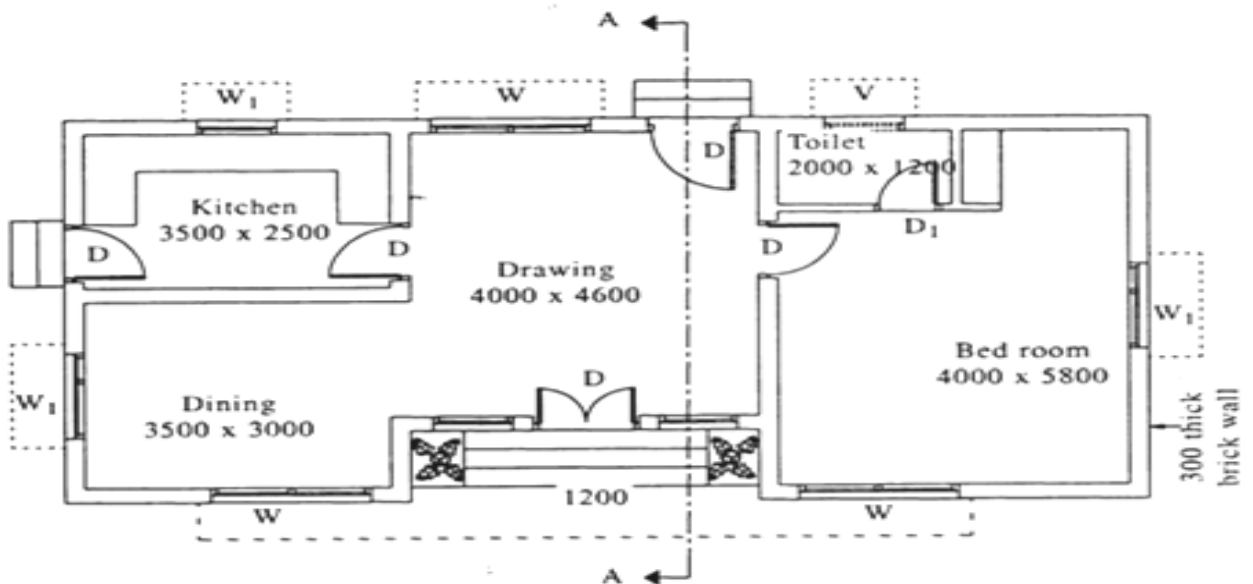
- 3 Explain the principles involved in working out the quantities for detailed estimates.

UNIT – II

- 4 Estimate the quantities of the following items from the plan and section as shown in figure 1.
- Earth work excavation.
 - Masonry work in super structure.

OR

- 5 Estimate the quantities of the following items from the plan and section as shown in figure 1.
- Earth work in filling.
 - Flooring.



PLAN

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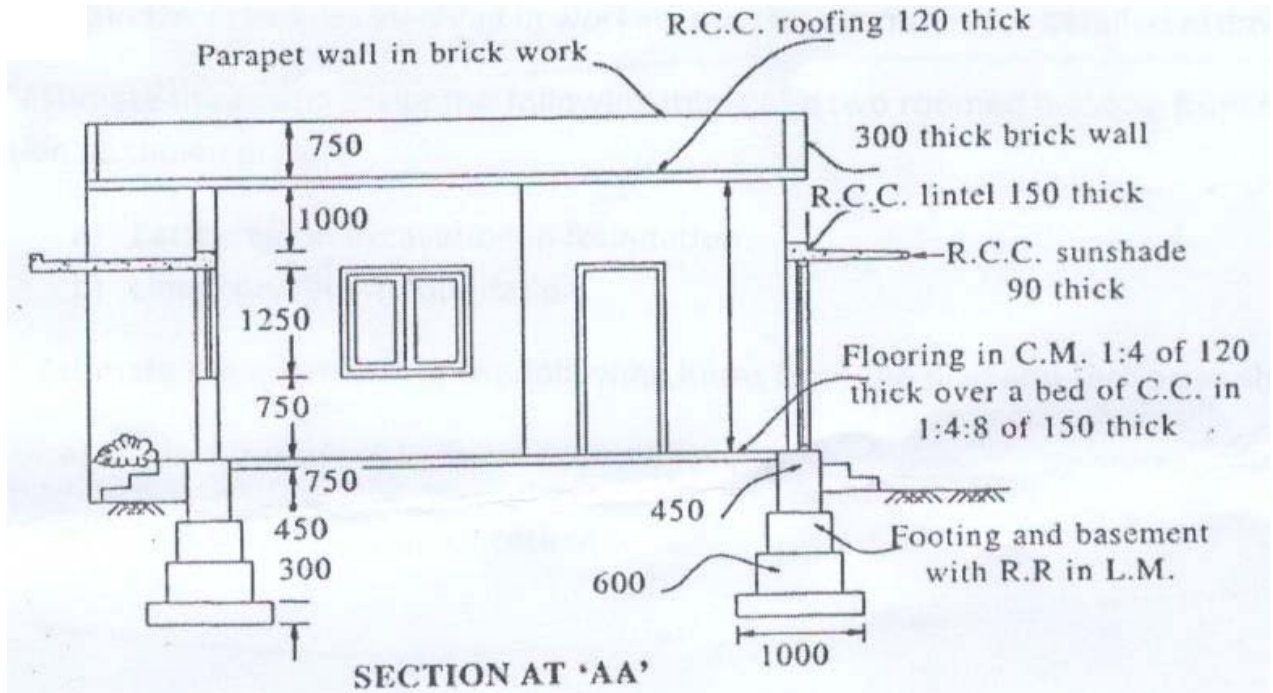


Figure : 1

UNIT - III

- 6 The ground levels along the center line of the road are given below.

Chainage in m	0	20 m	40 m	60 m	80 m
R.L of ground	101.5	100.9	101.5	102	102.85

The formation level throughout 80 m length is 102.75. The road has a rising gradient 1 in 40. If the width of the road is 12 m and side slopes 2:1, calculate the quantity of earthwork required by any method.

OR

- 7 The details of cross section of a road crest 4m wide and 6000 m length are as follows:

- 15 cm for boulder soiling.
- 100 mm wide 125 mm deep boulder edging.
- 10 cm consolidated stone matching.

Prepare a detailed estimate of the road.

UNIT - IV

- 8 Explain the contract system and the types of contracts in detail.

OR

- 9 Calculate the materials, labour etc required and work out the rate analysis for the following items.

- R.C.C work in beams slabs with 1:2:4 per m^3 .
- I class brickwork in foundation and plinth with 20 x 10 x 10 cm bricks with 1:6 cement mortar sand per 1 cubic meter.

UNIT - V

- 10 Determine the present value of a building, which was constructed 35 years ago at Rs 35000/-. The estimated life of the building is 80 years, at the end of which it will have 10% scrap value of its cost of construction. Determine the value by any two methods.

OR

- 11 What are the requirements of tendering and explain in detail the types of tenders.
