Reg. No. :

Question Paper Code: 31162

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2016

Sixth Semester

Civil Engineering

01UCE602 - ESTIMATION, COSTING AND VALUATION ENGINEERING

(Regulation 2013)

Duration: Three hours   Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1. List the types of estimate.

2. Define construction cost index.

3. Label the factors affecting the rate analysis.

4. Define schedule of rate.

5. List the objects of specifications.

6. Define tender.

7. What is the mean by contract?

8. List the factors affecting the selection of mode of execution works.

9. Define valuation and the purpose of valuation.

10. Classify the methods of valuation for lands with building.

11. (a) (i) Estimate the following quantity of works, building plan shown in figure 1. (8)
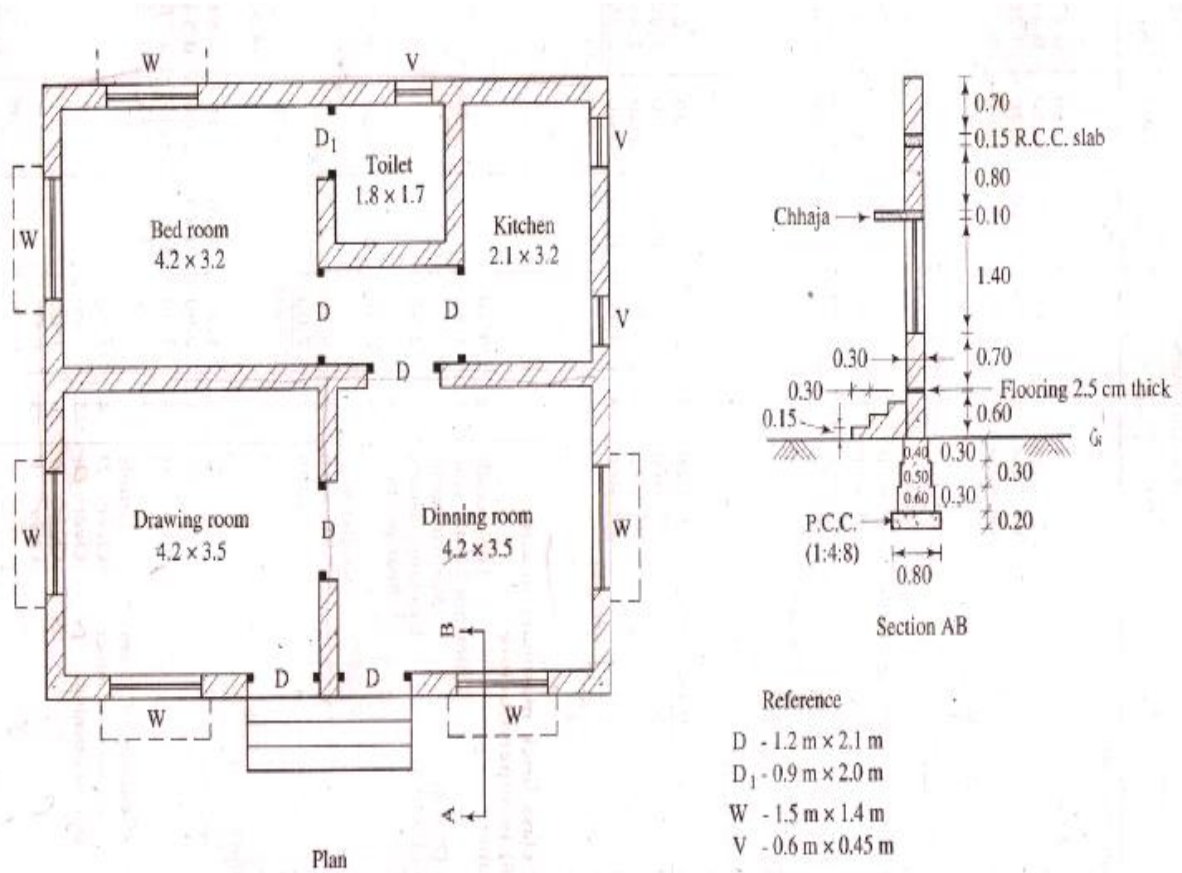

Figure 1

(ii) Quantity of brickwork in superstructure inner wall plastering of all rooms. (8)

Or

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(b) Estimate the following quantity of works, building plan shown in figure 2.   (16)
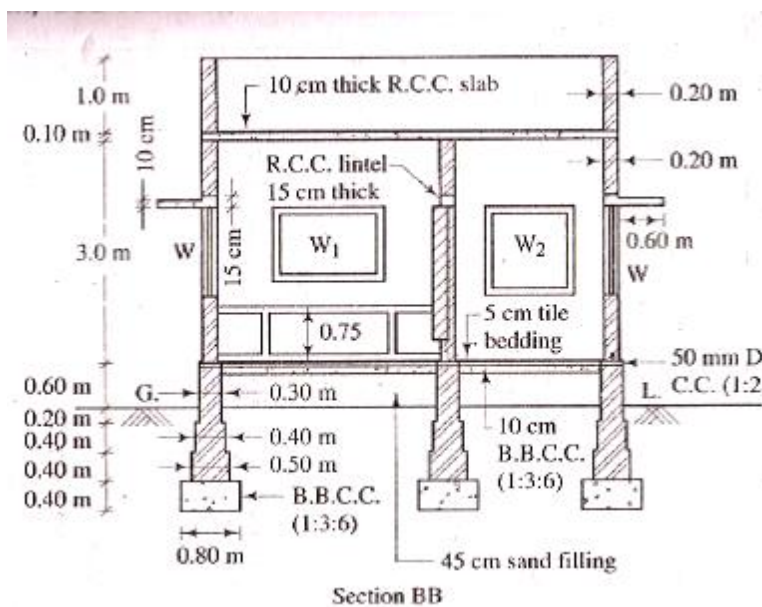

Plan

Section BB

Figure 2

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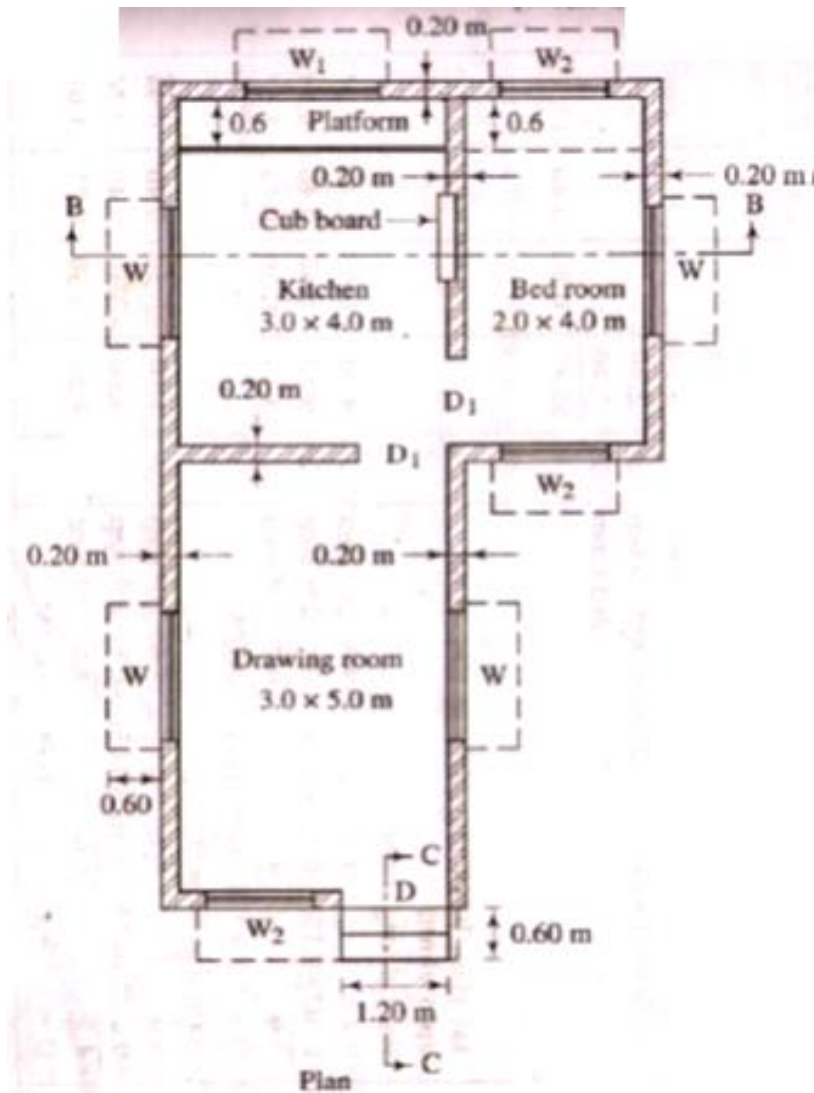
12. (a) Calculate the rate analysis for

    (i) P.C.C(1:4:8) below column footing in foundations. (8)

    (ii) First class brick work in C.M 1:8 upto plinth. (8)

Or

  (b) What is schedule of rates? Explain. (16)

13. (a) Summarize the different sources of information for the preparation of specifications. (16)

Or

  (b) Describe the opening and scrutiny of tenders. (16)

14. (a) Illustrate the different types of contracts. (16)

Or

  (b) Describe the arbitration in detail. (16)

15. (a) A building of replacement value of about Rs 70000/- stands on a main road on a leasehold plot. The ground rent per annum is Rs 295/-. The building is of R.C.C framed structure type. It is estimated that the building will have a future life 70 years. The rent of the building that is Rs 400/- per month. The taxes payable are 18 % of the gross rent and insurance premium is 0.5 % of the gross rent. Assuming suitable figures for other items of usual outgoings, Calculate the capitalized value of the property on the basis of a 5 % net yield. The sinking fund coefficient for the replacement of the capital in 70 years at 3 % is 0.0043. (16)

Or

  (b) What are the methods generally adopted for valuation of land and building? Describe about them. (16)

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