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Sixth Semester B.Arch. Degree Examination, Dec.2018/Jan.2019
Estimating and Costing

Time: 3 hrs.

Max. Marks:100

Note: 1. Answer Q.No.1 compulsory and any FOUR from Q.No.2 to Q.No.8.
 2. Follow written dimensions only.
 3. Missing data if any may be suitably assumed.

- 1 Fig.Q.1 shows the details of a small residential unit. Prepare a detailed estimate for below mentioned items of work by "Centre-Line Method".
- Centre-line calculation details. (10 Marks)
 - Earth work in excavation for foundation @ Rs.200 per cu M. (10 Marks)
 - PCC Bed for foundation (1:4:8) @ Rs.3250 per Cu M. (10 Marks)
 - Coursed Rubble Masonry in CM (1:6) for foundation and Plinth @ Rs.3600 per Cu M. (10 Marks)
- 2 Write detailed technical specification for:
- Earthwork in excavation. (05 Marks)
 - DPC 1:3:6. (05 Marks)
 - Glazed tiles in skirting and Dado. (05 Marks)
- 3 Write short notes on:
- Schedule of Rates. (05 Marks)
 - Work-charged establishment. (05 Marks)
 - Contingencies. (05 Marks)
- 4 Differentiate between the following:
- Revised estimate and supplementary estimate. (05 Marks)
 - Square metre method estimate and cubic metre method estimate. (05 Marks)
 - Security deposit and retention money. (05 Marks)
- 5
- Define rate analysis and mention its purposes. (05 Marks)
 - Define the term contract. What are the essential requirements of a valid contract? (05 Marks)
 - What is tender? Explain different classifications of Tender. (05 Marks)
- 6 Calculate the quantities of earthwork for 300m length for a portion of road in a uniform ground. The height of the banks at two ends being 1.0 and 1.3. The formation width is 6.0m and side slopes 2:1 (Horizontal Vertical). Assume that there is no transverse slope, Calculate the quantity using Mid-Section method, mean area method and Prismoidal methods. (15 Marks)
- 7 Fig.Q.7 shows the details of RCC column. Calculate the quantity of concrete and steel. (15 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
 2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

- 8 Fig.Q.8 shows the details of septic tank calculate the quantities for:
- a. Earthwork in excavation.
 - b. PCC Bed in 1:4:8.
 - c. First class brickwork in CM (1:6).

(05 Marks)
 (05 Marks)
 (05 Marks)

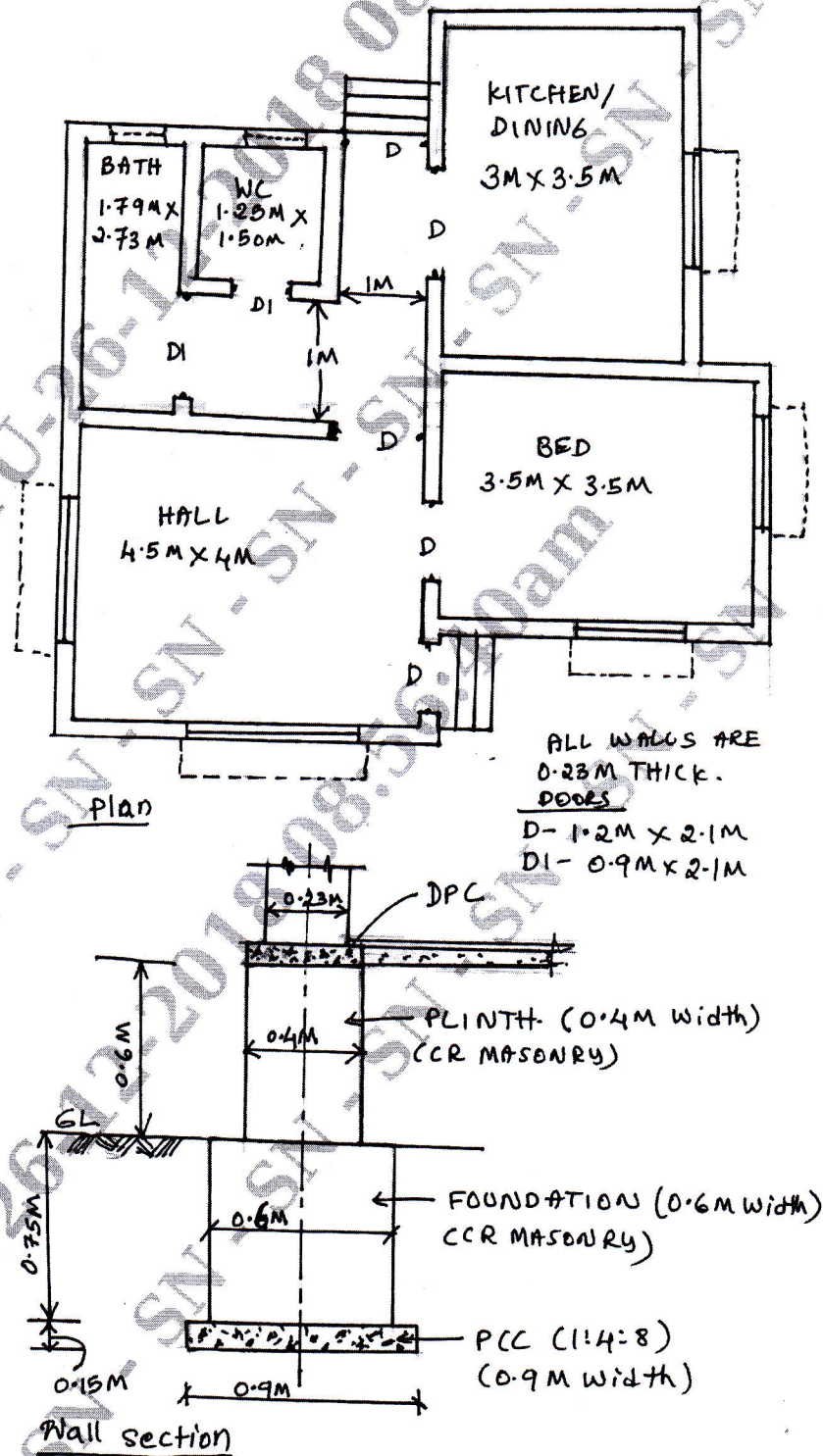


Fig.Q.1

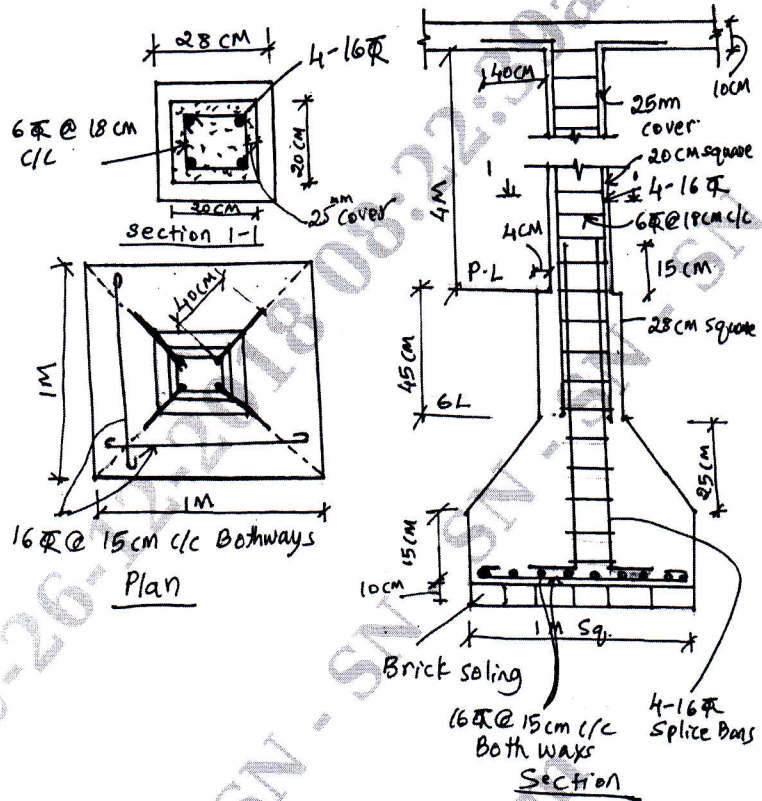


Fig.Q.7

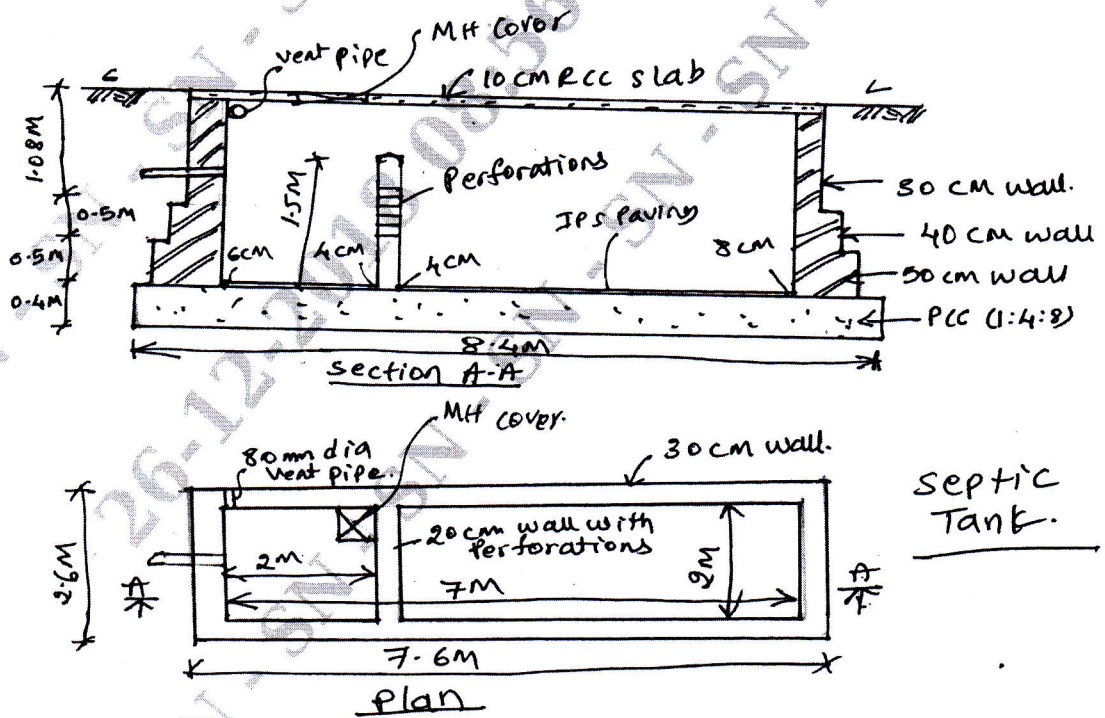


Fig.Q.8