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18ENG74

Seventh Semester B.Arch. Degree Examination, July/August 2022

Specification , Quantity and Costing of Buildings

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. What is an Estimate? Justify the need for one. (06 Marks)
- b. Explain the following : i) Preliminary estimate ii) Remixed estimate
iii) Supplementary estimate iv) Supplementary and Revised estimate. (14 Marks)

OR

- 2 Write detailed technical specification for
 - a. Earth work is excavation. (06 Marks)
 - b. PCC (1 : 4 : 8). (07 Marks)
 - c. SSM in CM (1.8). (07 Marks)

Module-2

- 3 a. What is a BOQ? Explain its importance. (10 Marks)
- b. What is a Tender Document? Explain in detail. (10 Marks)

OR

- 4 a. Explain about Earnest Money deposit and Security deposit. (10 Marks)
- b. What is a Contract? Explain about Labour contract. Discuss its advantages and disadvantages. (10 Marks)

Module-3

- 5 a. What is Schedule of Rates? Discuss points why rates vary. (10 Marks)
- b. Prepare the Rate analysis for the below mentioned item of work.
i) PCC 1: 4 :8 using 40mm and down sized CA. (10 Marks)

OR

- 6 a. Explain what is meant by Rate Analysis. (08 Marks)
- b. Prepare a detailed rate analysis for placing and laying of cement concrete 1 : 4 : 8 in foundation bed. (12 Marks)

Module-4

- 7 Sketch 1 shows a 3 Bed room unit. Prepare a detailed estimate for the below mentioned item of work.
 - a. Earthwork in Excavation. (06 Marks)
 - b. BBM in CM 1 : 6 for super structure (230mm wall). (07 Marks)
 - c. SSM in CM 1 : 6 is foundation (230mm wall). (07 Marks)

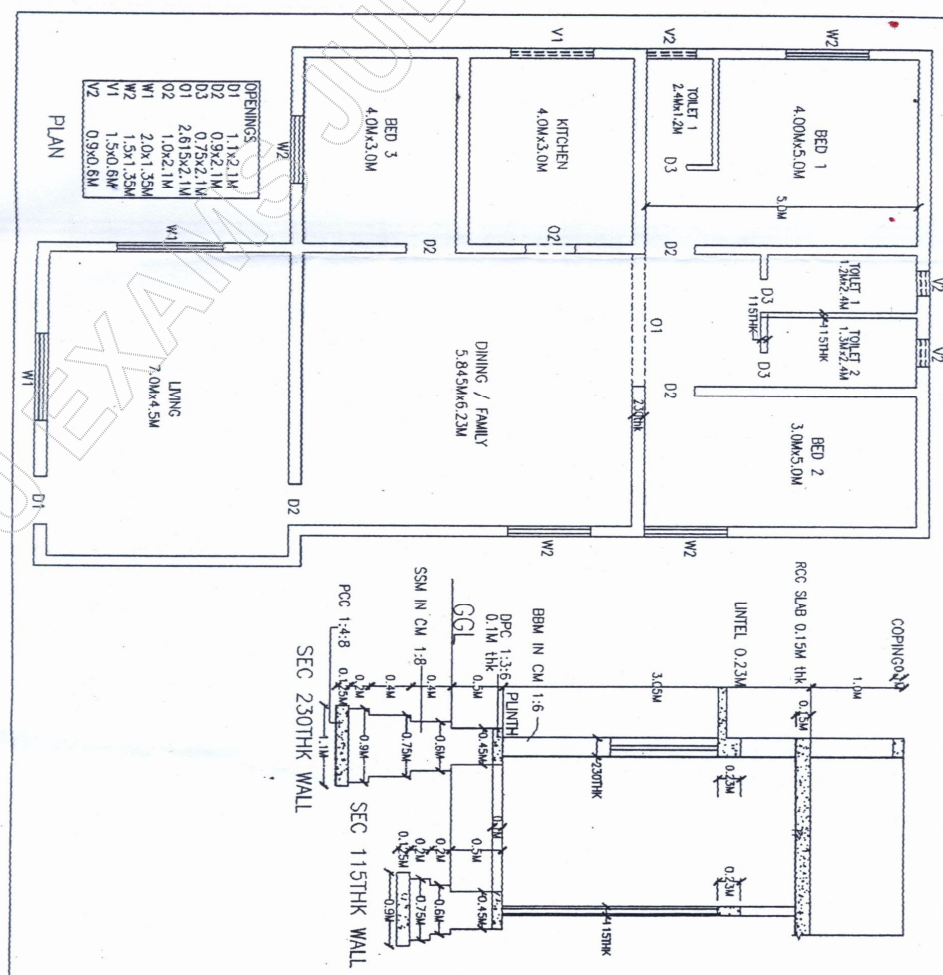
OR

Module-5

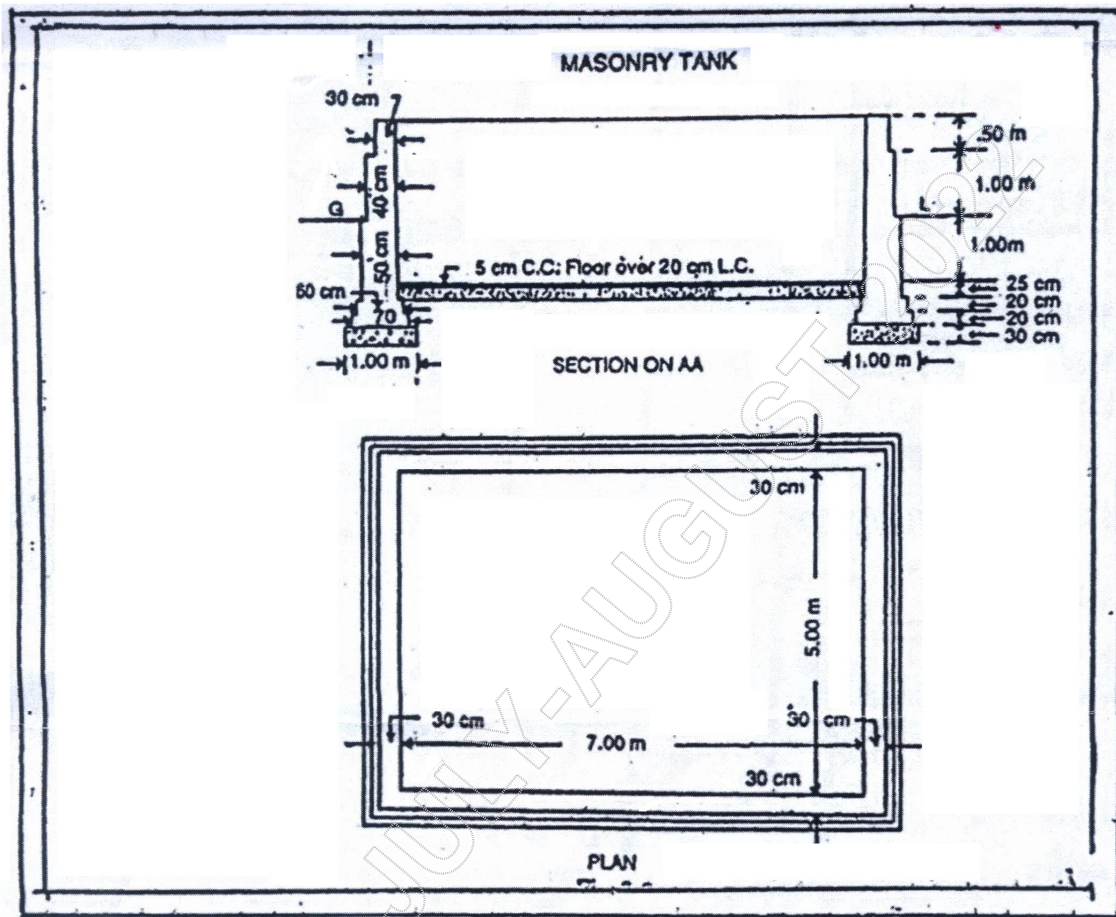
- 9 The sketch 2, shows the details of septic tank. Prepare a detailed estimate for following details shown below :
- | | |
|---|------------|
| a. Earth work in excavation. | (05 Marks) |
| b. Lime concrete in foundation and floor. | (05 Marks) |
| c. 1 st class Brickwork in CM 1 : 6. | (05 Marks) |
| d. 12mm cement plaster 1 : 2 with coarse sand. | (05 Marks) |

OR

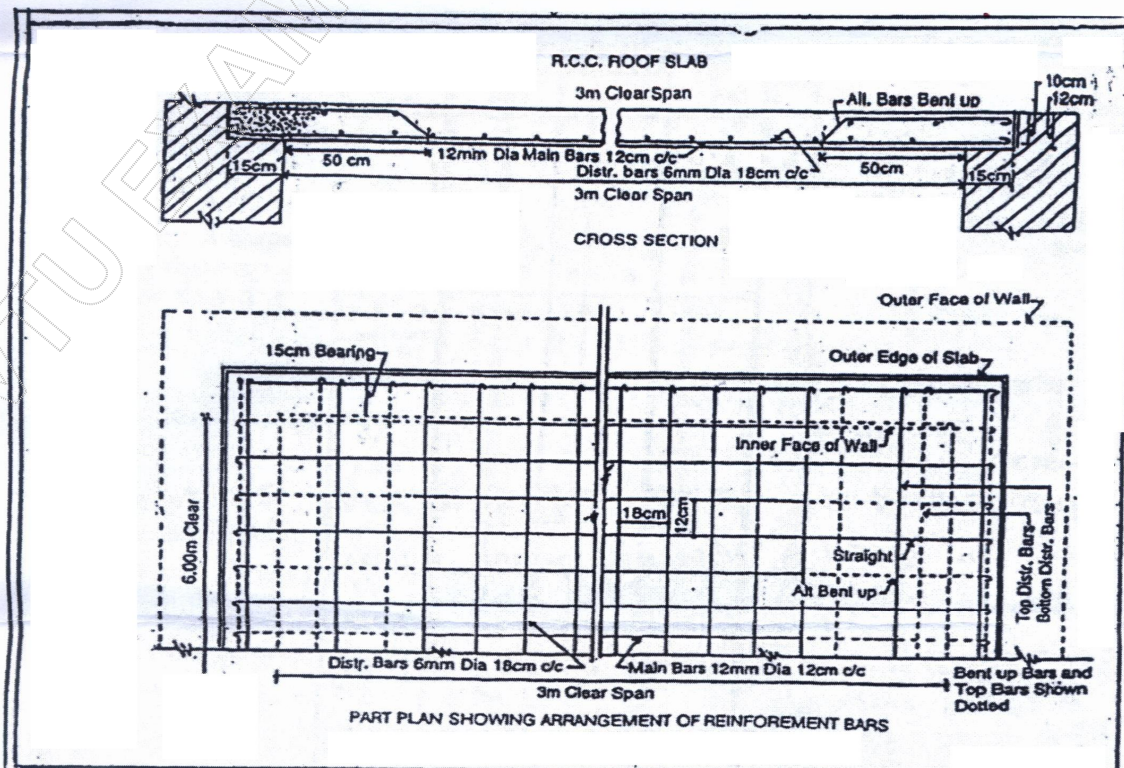
- 10** a. Prepare a detailed estimate of a RCC roof slab of 3m clear span and 6m long from given Sketch 3. **(10 Marks)**
- b. Discuss the role of an architect in monitoring specification RA bills , Quality control at site. **(10 Marks)**



Sketch 1



Sketch 2



Sketch 3