

# CBCS SCHEME

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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**

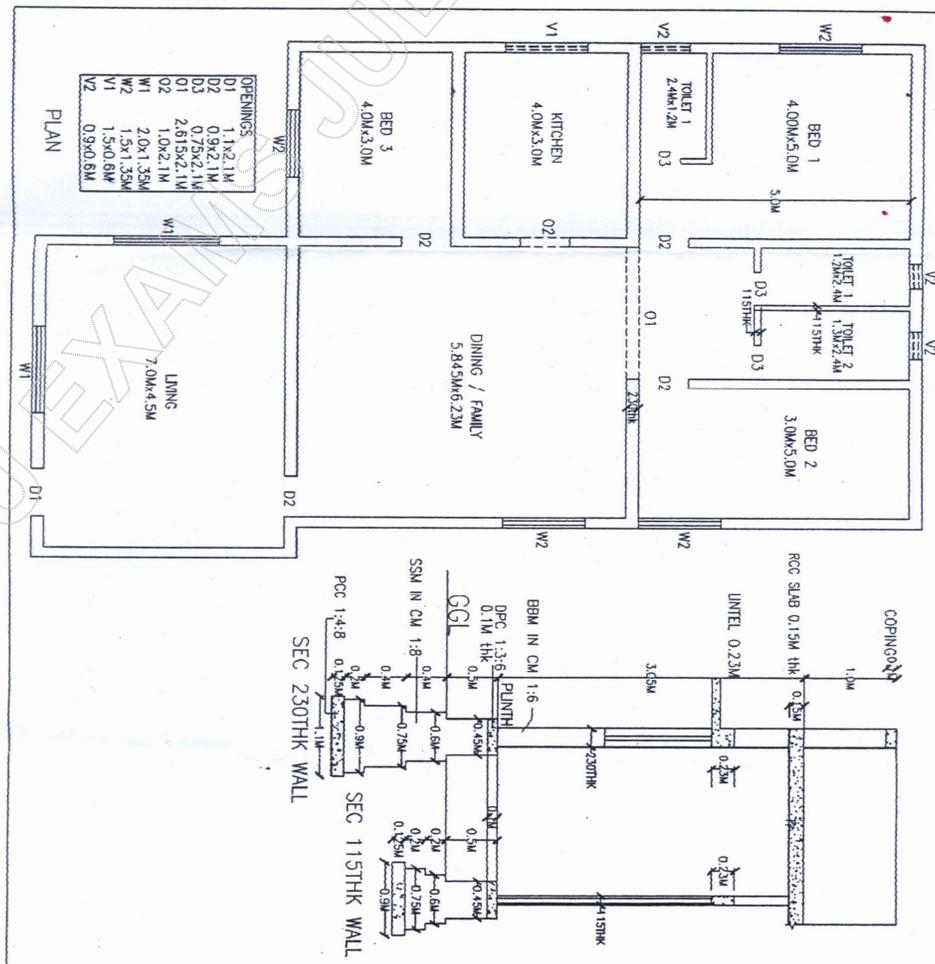
- 8 For the same Sketch 1, calculate the below mentioned :
- Internal ceiling plaster in CM 1 : 4, 12mm thick. (07 Marks)
  - Internal wall plaster in CM 1 : 6, 12mm thick. (07 Marks)
  - Vertrified tile flooring in CM 1 : 3. (06 Marks)

**Module-5**

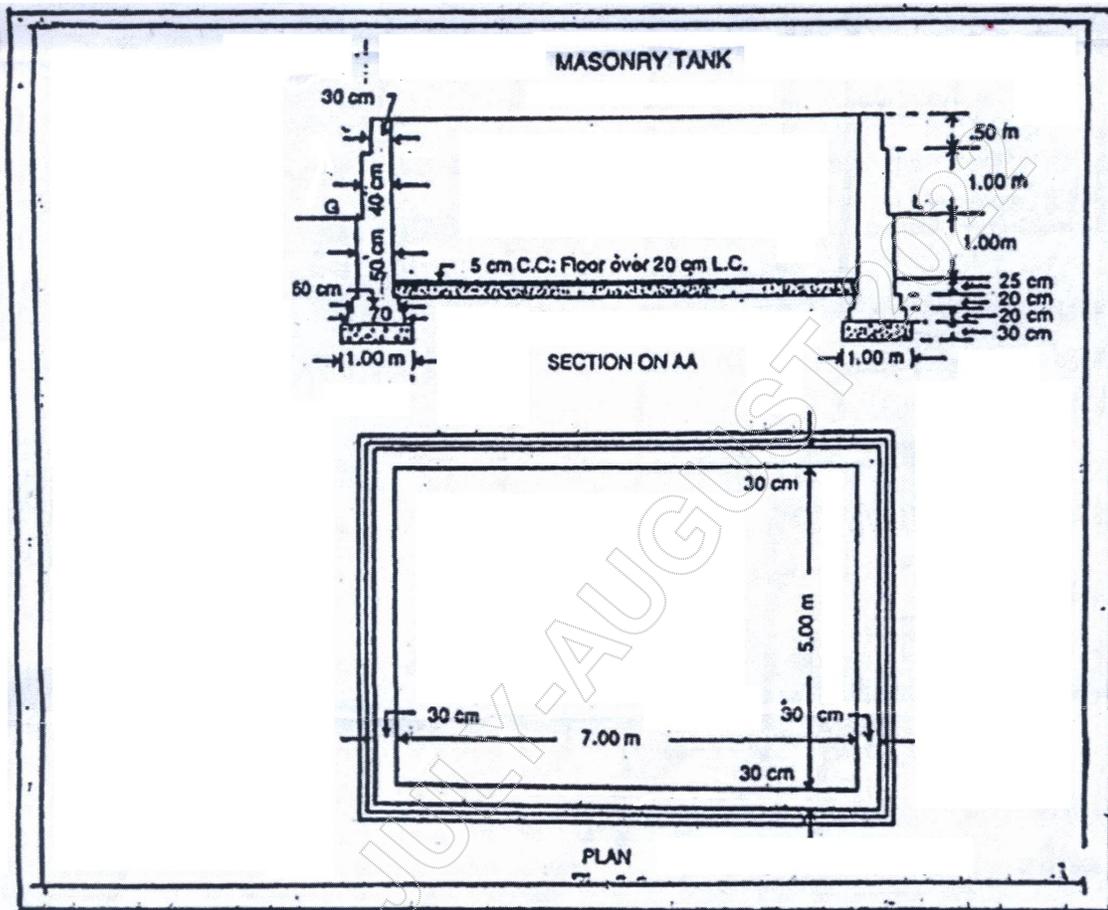
- 9 The sketch 2, shows the details of septic tank. Prepare a detailed estimate for following details shown below :
- Earth work in excavation. (05 Marks)
  - Lime concrete in foundation and floor. (05 Marks)
  - 1<sup>st</sup> class Brickwork in CM 1 : 6. (05 Marks)
  - 12mm cement plaster 1 : 2 with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

**OR**

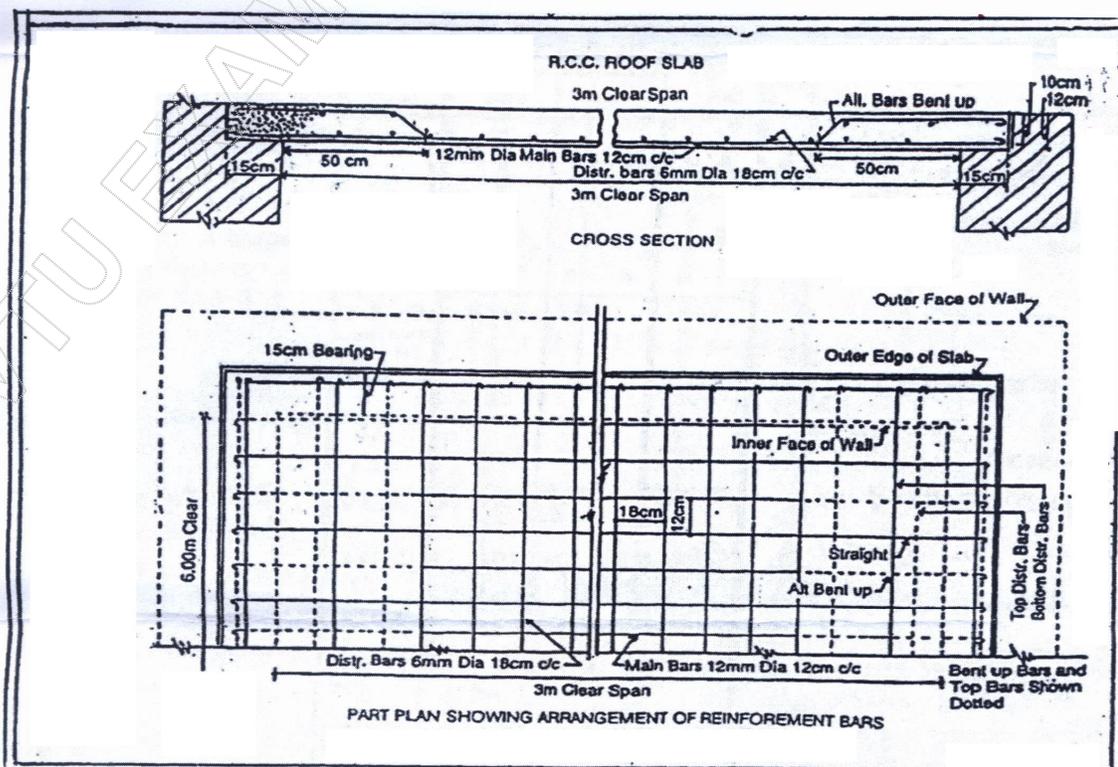
- 10 a. Prepare a detailed estimate of a RCC roof slab of 3m clear span and 6m long from given Sketch 3. (10 Marks)
- b. Discuss the role of an architect in monitoring specification RA bills , Quality control at site. (10 Marks)



**Sketch 1**  
2 of 3



Sketch 2



Sketch 3