

# CBCS Scheme

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15ARC4.6

## Fourth Semester B. Arch Degree Examination, June/July 2018 Specification Quantity and Costing of Buildings

Time: 3 hrs.

Max. Marks: 100

*Note: Answer FIVE full questions, choosing one full question from each module.*

### Module-1

- Explain need for estimation. (08 Marks)
  - Explain factors affecting estimation of works. (12 Marks)

OR

- Write detailed specification for the following :
  - Plastering 20mm thick in CM (1:4) 2<sup>nd</sup> to 4<sup>th</sup> storey of building. (10 Marks)
  - M20 concrete for foundation. (10 Marks)

### Module-2

- List the usual items of BOQ for an R.C framed structure. Why and how do you make the BOQ flexible resilient and redundant. (20 Marks)

OR

- Explain mandatory tests of a building project. (10 Marks)
  - Explain how do you adopt safety measures in works. (10 Marks)

### Module-3

- Explain schedule of rates, escalation clause, extra items and variations. (12 Marks)
  - Carry out rate analysis for 12mm thick cement plastering on I floor roof given cement = Rs. 320/bag, sand = Rs. 120/m<sup>3</sup> (08 Marks)

OR

- Why do rates vary? Discuss market rates, concept of inflation and its effect on costing. (12 Marks)
  - Explain “percentages” of various bulk materials used in construction. (08 Marks)

+Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

**Module-4**

- 7 Fig Q7 is the structured plan and section for a residential building. Assuming reinforcement percentage as 1.4% for footing, 2% for column, 1.7% of plinth beam, 1.5% for flat slab. prepare a BOQ (without rates) covering all relevant items writing brief specification. (20 Marks)

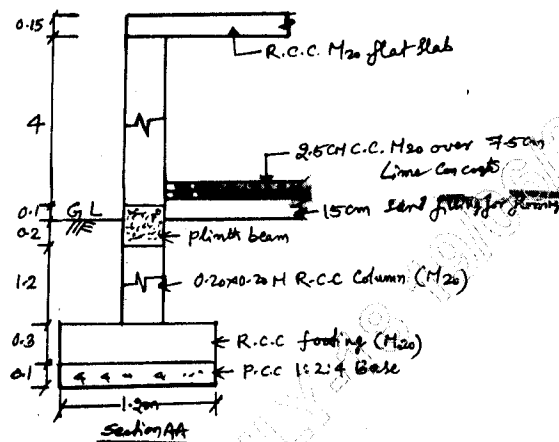
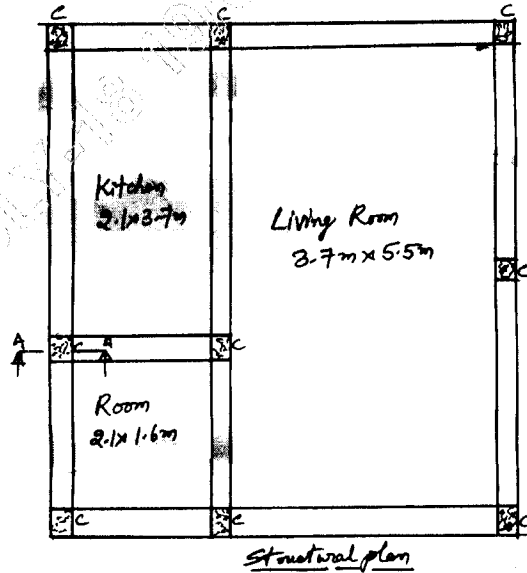


Fig Q7

OR

- 8 Write detailed specifications for all the relevant items of BOQ of question No.7 (20 Marks)

**Module-5**

- 9 Write detailed specifications for any 5 relevant items for a water supply and sanitary project (20 Marks)

OR

- 10 a. Explain the role of Architecture in monitoring the specification following up for quality control etc. (10 Marks)  
 b. Write short notes on : i) Measurement Book ii) R.A bills. (10 Marks)

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