



CBCS SCHEME

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21ARC75

Seventh Semester B.Arch. Degree Examination, Dec.2025/Jan.2026 Estimation and Costing

Time: 3 hrs.

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. Assume any missing data suitably.*

Module-1

- 1 a. What is an Estimate? Why are estimates prepared in a Building project? (08 Marks)
- b. Explain the following :
i) Detailed estimate
ii) Supplementary estimate
iii) Preliminary estimate (12 Marks)

OR

- 2 Write detailed technical specification for the following :
- a. Earthwork excavation for foundation (06 Marks)
- b. R.C. C work (1 : 2 : 4) (08 Marks)
- c. Cement Concrete Flooring 75 mm thick, 1 : 4 : 8 (06 Marks)

Module-2

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

OR

- 4 a. What is Earnest Money Deposit and Security Deposit? Explain in detail. (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 R.C.C. work 1 : 1.5 : 3 for Beams, Columns with 2% steel. (10 Marks)

OR

- 6 a. Explain what is meant by Rate Analysis. (08 Marks)
- b. Prepare the rate analysis for First (1st) class brickwork in C:M 1 : 4. (12 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.

Module-4

- 7 Estimate the quantities for the following items of work for a two room building shown in Fig.Q7. Use long wall and short wall method.
 (i) Earthwork excavation (ii) PCC bed concrete 1 : 4 : 8 (iii) Brick masonry C:M 1 : 6

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D – Door 1.2 m × 2.1 m

W – Window 1.0 m × 1.5 m

S – Shelves 1.0 m × 1.5 m

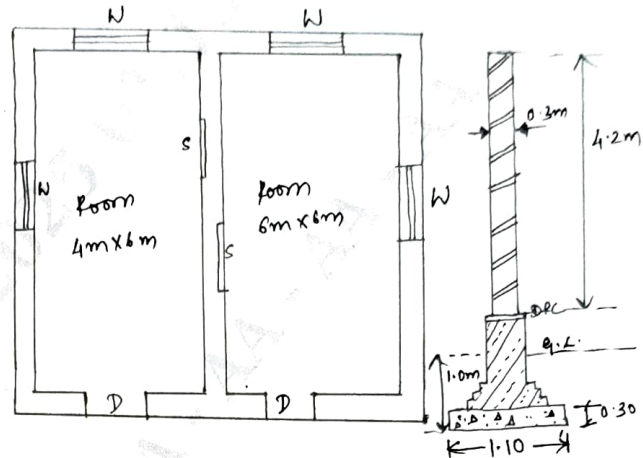


Fig.Q7

(20 Marks)

OR

- 8 Estimate the quantities for the following items of work for a two room building shown in Fig.Q7. Use centre line method.
 (i) Earthwork excavation in foundation (ii) PCC bed concrete 1 : 4 : 8
 (iii) Brick masonry C:M 1 : 6 for super structure

(20 Marks)

Module-5

- 9 The details of septic tank is given in Fig.Q9. Find the quantities for the following :
 a. Earthwork in excavation b. BBM in CM 1 : 4 c. Roof covering slab and baffle wall
 d. Foundation bed concrete and floor concrete with C:C 1:3:6

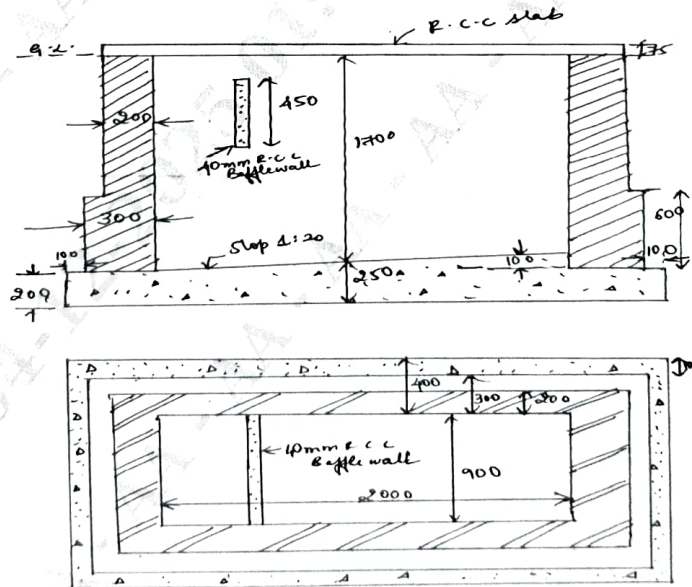


Fig Q9

All dim in mm.

(20 Marks)

OR

- 10 a. Explain the role of architects in monitoring specifications. (10 Marks)
 b. What is unit rate and lumpsum rate? (10 Marks)