



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)

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)

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

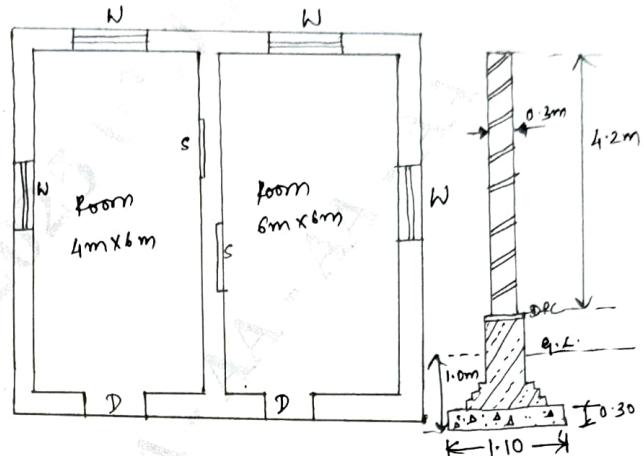


Fig.Q7

(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

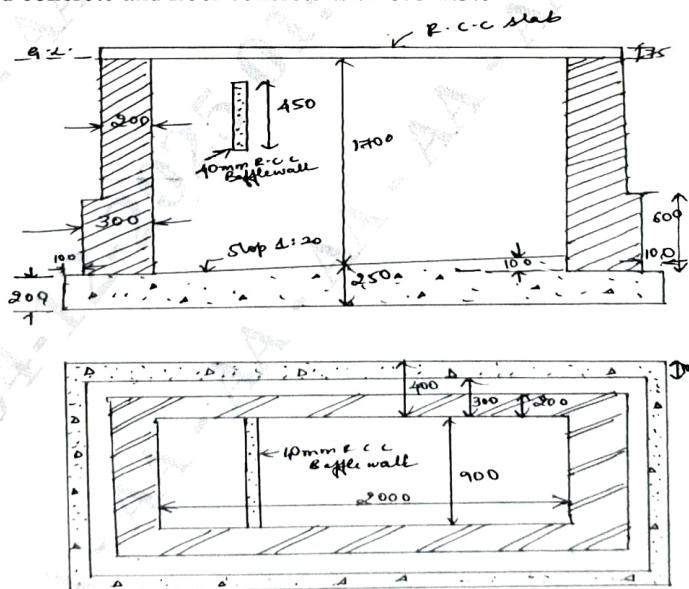


Fig.Q9

(20 Marks)

OR

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

(10 Marks)

(10 Marks)

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