

CBCS SCHEME

USN

--	--	--	--	--	--	--	--	--	--

18ENG74

Seventh Semester B.Arch. Degree Examination, Dec.2024/Jan.2025 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 do you mean by General specification and detailed specification? (08 Marks)
- b. What are the importance of Indian standard specifications? Discuss the objects of specifications. (12 Marks)

OR

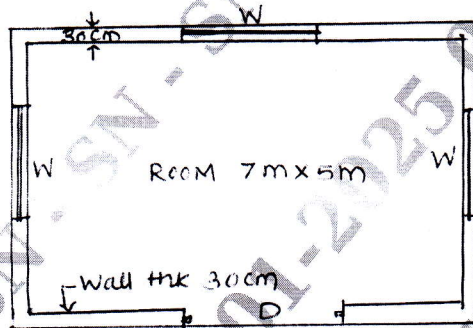
- 2 a. Write detailed technical specifications for providing and constructing burnt brick masonry and CM 1 : 6 for superstructure using table moulded bricks. (08 Marks)
- b. Explain the following : i) Detailed Estimate ii) Supplementary Estimate
iii) Revised Estimate. (12 Marks)

Module-2

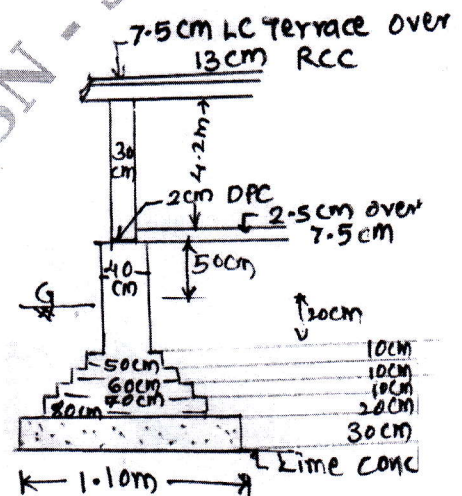
- 3 a. Explain Bill of Quantities (BOQ). Give a typical sheet showing how BOQ is furnished. (08 Marks)
- b. Explain the following terms : i) Day work ii) Prime cost iii) Provisional sum. (12 Marks)

OR

- 4 Estimate the quantities of the following items of a single room building from Fig. Q4.



PLAN Fig. Q4



Cross section of Wall Fig. Q4

- a. Cement concrete in foundation.
 - b. Earthwork in excavation in foundation.
 - c. 2.5 cm DPC
 - d. SSM in CM 1 : 6 for foundation and plinth.
- Use long wall and short wall method.

(20 Marks)

Module-3

- 5 a. Explain i) Analysis of Rates ii) Overhead costs. (08 Marks)
- b. Workout from the 1st principles rate analysis for RCC roof slab 1 : 2 : 4. (12 Marks)

- ## Module-4

- (20 Marks)**



Module-5

- 9 Prepare a detailed estimate of a septic tank with soak – pit for 50 users together with sanitary fittings of one seat of latrine as shown in Fig. Q9 for the following items of works.
- Earth work in excavation.
 - First class brick work in septic tank.
 - 12mm thick plastering for walls using CM 1 : 6 (inner surface).
- (20 Marks)

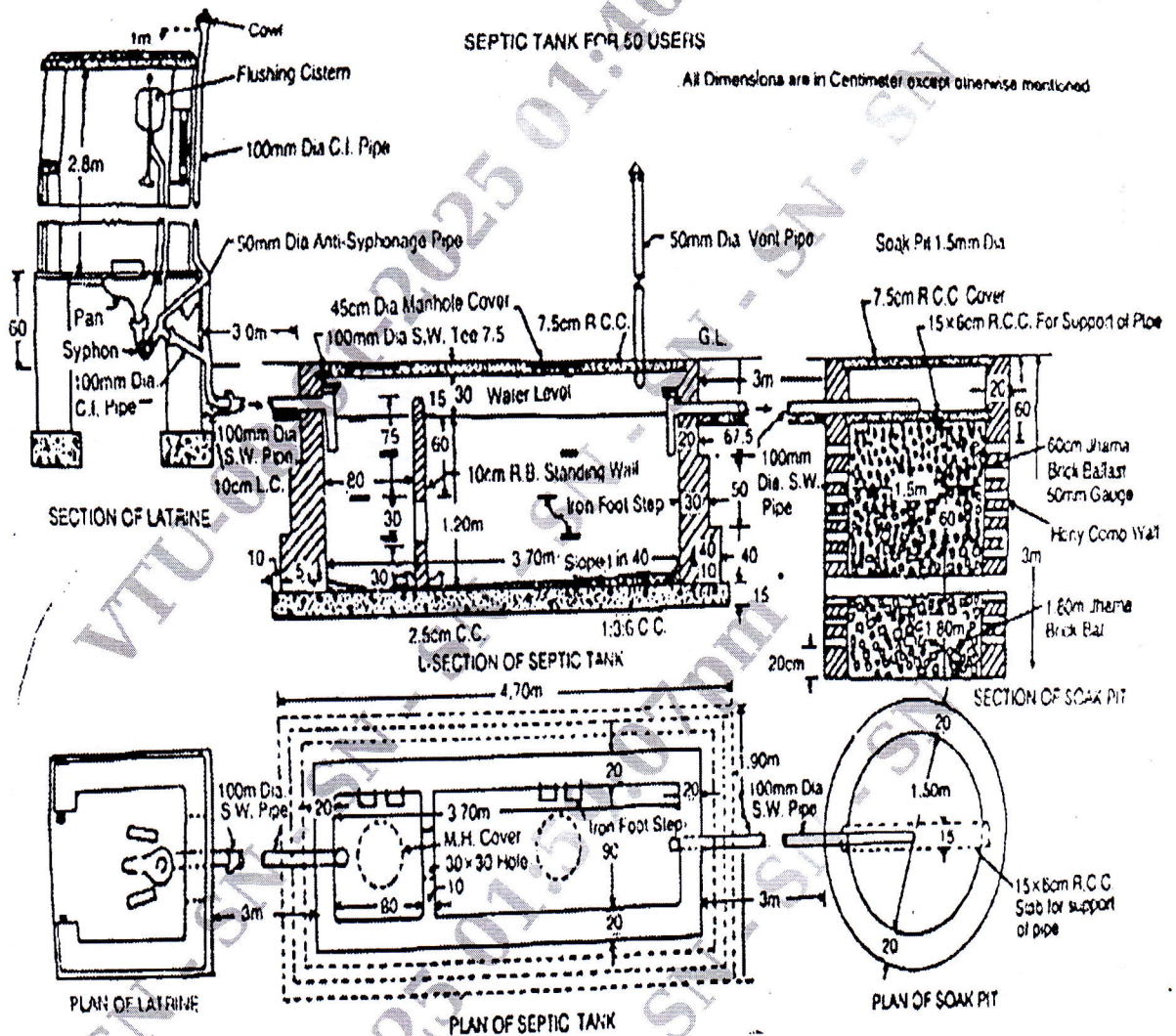


Fig. Q9

OR

- 10 a. Explain Role of Architects in monitoring specifications follow up for quality control. (10 Marks)
- b. Explain :
- i) Measurement Book (MB)
 - ii) RA Bills
 - iii) Interim and final checking
 - iv) Certification of works on site based on the BOQ and terms of contract. (10 Marks)

* * * * *