

GANDHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, ODISHA, GUNUPUR (GIET UNIVERSITY)



B. Tech (Seventh Semester) Examinations, November – 2024
21BCVPC47001 – Estimation Costing and Professional Practice
(Civil Engineering)

Time: 3 hrs

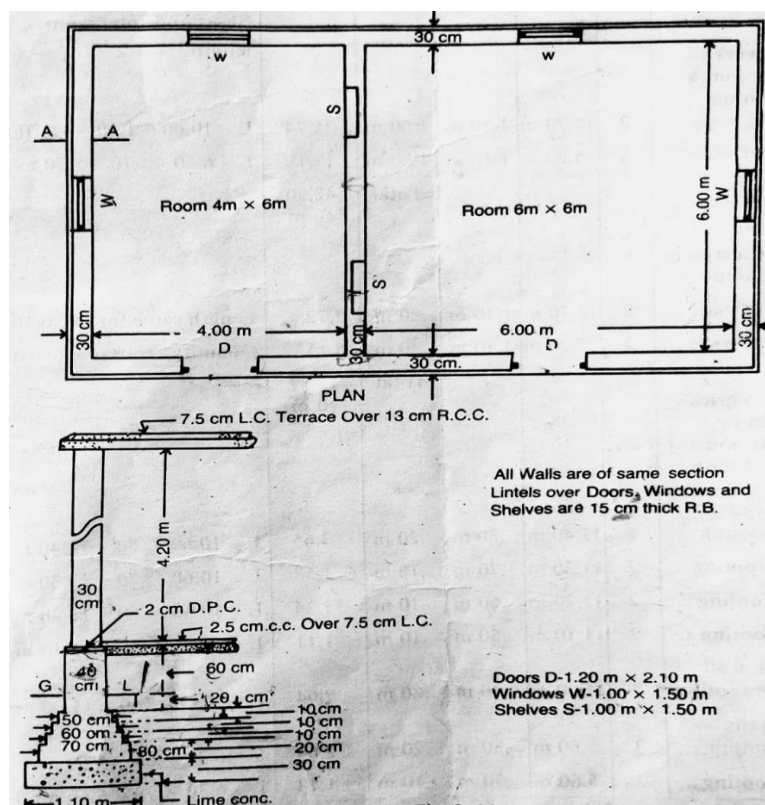
Maximum: 70 Marks

Answer ALL questions**(The figures in the right hand margin indicate marks)****PART – A****(2 x 5 = 10 Marks)**Q.1. Answer **ALL** questions

	CO #	Blooms Level
a. Distinguish between detailed and abstract estimates?	CO2	K2
b. List the important content in contract documents?	CO3	K1
c. What is a measurement book?	CO3	K1
d. What is a 'Contract'. Briefly discuss about different types of contract?	CO4	K2
e. State the necessity of preparing the approximate estimate?	CO2	K1

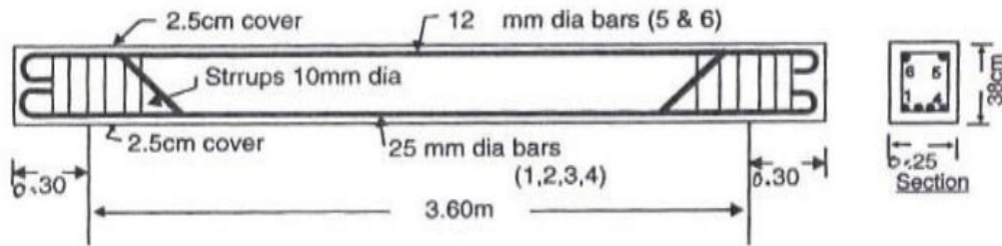
PART – B**(15 x 4 = 60 Marks)**Answer **ALL** the questions

	Marks	CO #	Blooms Level
2. a. Explain about the (i) Long wall short wall method (ii) Centre line method	8	CO1	K1
b. What are the various aspects involved in method of estimating? Explain the importance of each aspect	7	CO1	K2
(OR)			
c. Explain principle units for various items of Work?	8	CO1	K1
d. List out general items of work for building estimates?	7	CO1	K1
3.a. Estimate the Earth work excavation and concrete filling in the foundation for the figure given below:	8	CO2	K3



(OR)

- b. Workout the quantity of reinforcement by preparing bar requirement schedule of a beam as per the drawing given below: 8 CO2 K3



- c. What is the difference between preliminary estimate and detailed estimate? 7 CO2 K2
- 4.a. Prepare the unit rate for R.C.C work in beams, Slabs 1:2:4 unit 1Cum. Take 10 Cum 8 CO3 K3
- b. Prepare the unit rate for Brick floor 10cm thick cement pointed – unit 1 Sqm. Take 100 Sqm 7 CO3 K3

(OR)

- c. Prepare the unit rate for 2nd Class Brick work in Mud Mortar in Super structure- 1 Unit Cum. Take 10 Cum. 8 CO3 K3
- d. Prepare the unit rate for 12 mm Cement Plastering in Ceiling 1:3 with coarse sand -Unit 1 Sqm. Take -100 Sqm. 7 CO3 K3
- 5.a. What are the different overhead charges in rate analysis? Explain. 8 CO4 K2
- b. Explain the process of acceptance of tenders and general tender conditions? 7 CO4 K1

(OR)

- c. Discuss different categories of contract in detail and differentiate them with respect to their important characteristics? 8 CO4 K2
- d. Write short notes on Labour schedule and finance schedule. 7 CO4 K1

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