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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VIII(NEW) EXAMINATION - SUMMER 2019

Subject Code:2184001 Date:09/05/2019

Subject Name: PROFESSIONAL PRACTICE AND VALUATION OF

INFRASTRUCTURE

Time:10:30 AM TO 01:00 PM **Total Marks: 70**

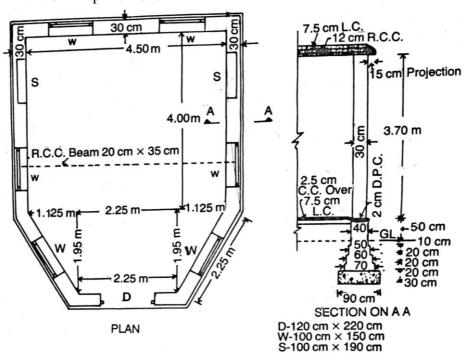
Instructions:

(c)

- 1. Attempt all questions.
- Make suitable assumptions wherever necessary.
- Figures to the right indicate full marks.

MARKS What are various types of estimate for building; give suitability of each type with 0.1 03 (a) example. **(b)** What is the use of construction cost index in estimation? Justify your view with suitable 04 example. Explain FIDIC contract conditions? Evaluate and mark the difference between FIDIC (c) 07 contract conditions and state R&B contract norms. **Q.2** (a) Draw flowchart of preparation of detailed estimates. 03 Discuss all characteristics of a "good" contract document briefly. **(b)** 04 For the given plan, derive detailed estimate for

- 1. Concrete in foundation
- 2. Brickwork in foundation and
- Brickwork in plinth level

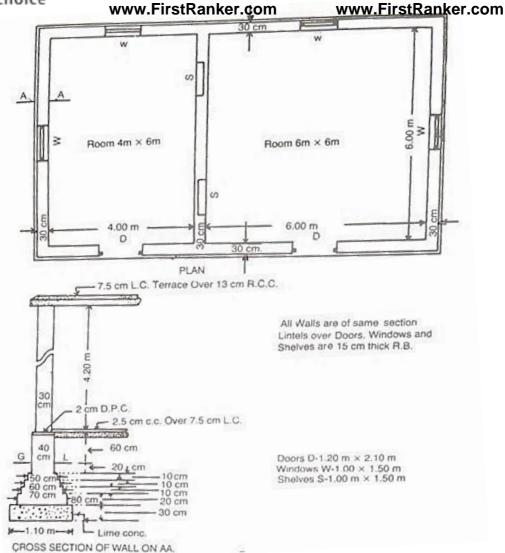


- For the given plan, derive detailed estimate.
 - 1. Earthwork in excavation for foundation
 - 2. Lime Concrete in foundation
 - 3. 1st class Brickwork in foundation and plinth level
 - 4. 2.5 cm Cement Concrete (CC) damp proof course

07

07





- Q.3 (a) Discuss the statement "Owner agrees to pay actual cost plus an agreed % of actual cost (to cover overhead and profit)" with reference to Cost plus percentage contracts with suitable example.
 - **(b)** Write important features of "Tender notice".
 - (c) Explain all dispute resolution mechanisms in a contract agreement with suitable example for each.
- Q.4 (a) Discuss the statement "Owner will have definite information on the resource requirements" with reference to Lump sum contract. Justify your comments with suitable examples.
 - **(b)** Discuss various reasons for rejection of a tender or all tenders.
 - (c) A three-story building standing on a plot of 800 sq. m. the plinth area of each story is 400 sq m. RCC framed structure with 70 years of future life may be assumed. A gross rate of 1500 Rs per month is received. Workout the capitalized value of the property on the basis of 6% net yield. For sinking fund 3% compound interest may be assumed. Cost of land may be taken 40 Rs per sq m. Assume following outgoings:
 - 1. Repairs at 0.5 times of gross income
 - 2. Municipal tax at 20% of gross income
 - 3. Property tax of 5% on gross income
 - 4. Insurance premium of 0.5% of gross income
 - 5. Management charges at 6% of gross income
 - 6. Other miscellaneous charges are at 2% of gross income.

04

04



	Firetr	In a plot of land costing 20,000 rastraction of building is right arkers of 80,000 Rs. The building consist of 4 flats. The owner expect 8% return on the cost of construction and 5% return on cost of land. Consider sinking fund of 4% interest basis for a future life of 60 years. Also annual repairs cost at 1% of construction. Other outgoing including taxes at 30% of the return on the building. Calculate the standard rent per month for each flat of the building.	07
Q.5	(a)	What do you mean by scrap value, salvage value, market value & book value?	03
	(b)	What do you mean by Specifications; Explain with some suitable examples?	04
	(c)	Derive the cost of reinforcement in beam per unit length with your comments.	07
	OR		
	(c)	Find labor (Skilled / Semi Skilled / Unskilled) productivity for concreting of column per meter run.	07

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