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B.Tech III Year I Semester (R15) Supplementary Examinations June 2018

ESTIMATION, COSTING & VALUATION

(Civil Engineering)

Time: 3 hours Max. Marks: 70

PART - A

(Compulsory Question)

- 1 Answer the following: $(10 \times 02 = 20 \text{ Marks})$
 - (a) What are the main items of work in estimating a building?
 - (b) Write in short about the considerations of detailed estimate of structures.
 - (c) Define lead and lift.
 - (d) Discuss briefly various factors to be considered while preparing road estimates.
 - (e) Classify different types of contract drawings.
 - (f) Explain rate analysis and sundries.
 - (g) What is a contract? List the different types of contracts.
 - (h) Discuss briefly various factors to be considered while preparing road estimates.
 - (i) Explain damp proof course.
 - (j) What are the various methods used for computing the earthworks.

PART - B

(Answer all five units, $5 \times 10 = 50 \text{ Marks}$)

UNIT – I

- 2 Enunciate:
 - (a) Earthwork excavation
 - (b) Soling
 - (c) Concrete in foundation
 - (d) Masonry
 - (e) Damp proof course

OF

- 3 Describe the following terms briefly:
 - (a) Formwork
 - (b) pointing
 - (c) Varnishing

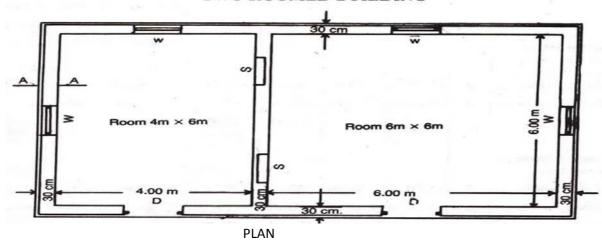
UNIT – II

- 4 (a) Explain long wall and short wall method.
 - (b) Explain Centre line method in detail.

OR

Calculate the quantities of the following items for the building shown in figure below using long wall and short wall method: (i) Earth work in excavation. (ii) Brick work in foundation and plinth. (iii) PCC (1: 5: 10) below the foundation. (iv) Damp proof course. (v) Brick masonry in CM (1:6) for super structure.

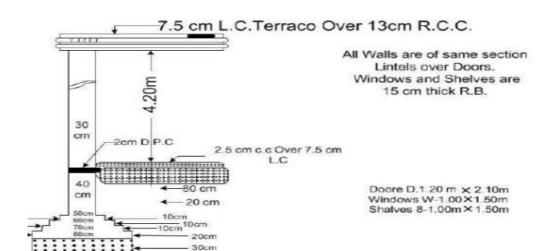
TWO ROOMED BUILDING



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UNIT – III

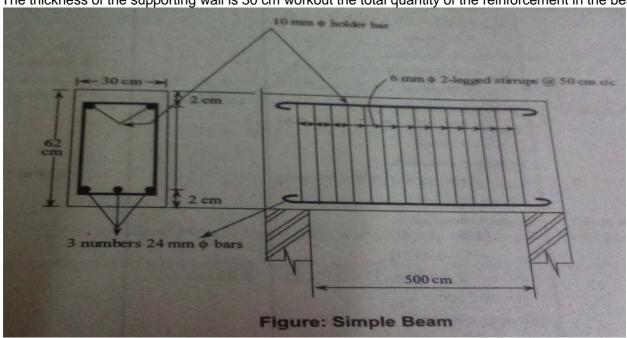
Prepare an estimate for the portion of a road from chainage 14 to 22 from the data given below. The formation width of the proposed road is 12 m, side slopes 11/2:1 in cutting and 2:1 in banking

Chainag	e (30 m)	14	15	16	17	18	19	20	21	22
RL of C	Fround	108.60	109.25	109.40	108.85	108.50	107.25	106.80	107.15	107.20

The road formation is proposed at uniform falling gradient 1 in 200 passing through GL at 14 m chainage. R.L of formation being 108.00 m.

OR

The longitudinal section and cross section of simple beam of clear span 5.0 m as shown in figure below. The thickness of the supporting wall is 30 cm workout the total quantity of the reinforcement in the beam.



UNIT - IV

8 Discuss in detail about the various elements of construction contract.

OR

9 (a) Explain in detail about any three types of tenders.

.10m

(b) What are the criteria to ensure the validity of contract?

UNIT – V

- 10 (a) What are the factors affecting rate analysis?
 - (b) Define salvage value and scrap value.

OR

- 11 (a) Define valuation and explain the purpose of valuation.
 - (b) Explain capitalized value with a simple example.

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