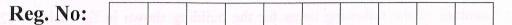
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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS)

B.Tech IV Year I Semester Regular & Supplementary Examinations Feb-2021 ESTIMATION, COSTING AND VALUATION

(Civil Engineering)

Time: 3 hours

Max. Marks: 60

(Answer all Five Units $5 \times 12 = 60$ Marks)

UNIT-I

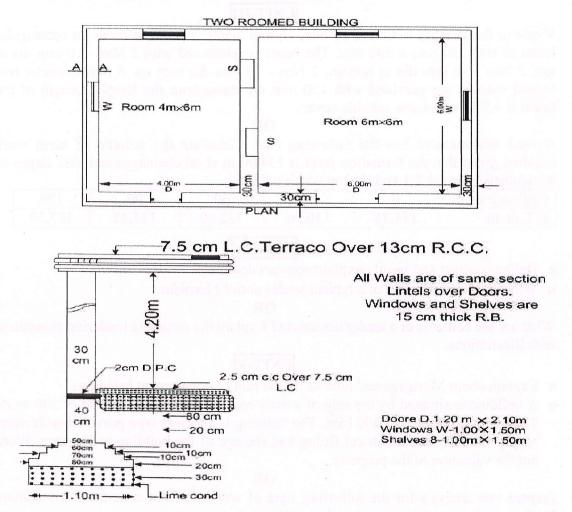
Explain the following general items of work involved in the estimation for a building (i) RCC Works (ii) Floor Finishes with Ceramic Tiles and Marbles (iii) Plastering and Pointing .

OR

2 Explain about the approximate method of estimation. And also tell where it is used. 12M

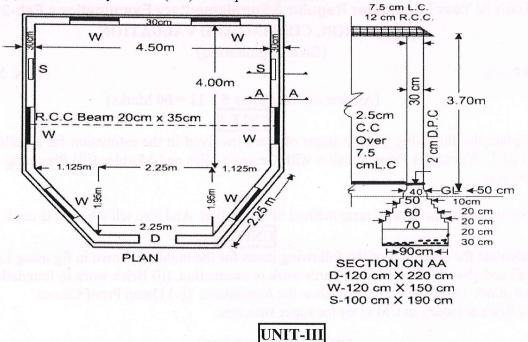
UNIT-II

3 Calculate the quantities of the following items for the building shown in fig using Long 12M 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.



4 Calculate the quantities of the following items for the building shown in fig using 12M Centre line 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.

OR



- 5 Workout the quantity of 6 mm, 10 mm, 16 mm diameter reinforcement for rectangular 12M beam of size 230 mm x 500 mm. The beam is reinforced with 2 Nos 10 mm dia at top, 2 Nos 16 mm dia at bottom, 2 Nos 16 mm dia bent up. 6 mm diameter two legged stirrups are provided with 150 mm c/c throughout the length. Length of the beam is 4.5 5 m. Assume suitable cover.
 - OR
- 6 A road embankment has the following data: Calculate the volume of earth work 12M required given that the formation level is 134.00 m at all chainages and side slopes of the embankment are 2:1 and the top width is 15 m.

Chainage in m	0	30	60	90	120
G.L in m	131.75	130.96	132.60	133.35	133.50

UNIT-IV

6M

6M

4M

7 a Define contract and briefly explain contract document.

b What are the particulars of a typical tender notice? Explain.

OR

8 What are the contents of a tender document? Explain the complete tendering procedure 12M with illustrations.

UNIT-V

- 9 a Explain about Mortgage and how to fix the rent of government buildings.
 - b A building is situated by the side of a main road of Anantapur on land of 500 sq m.
 8M The built up portion is 20 X 15m. The building is 1st class type provided with water supply, sanitary and electrical fitting and the age of the building is 30 years. Work out the valuation of the property.

OR

10 Prepare rate analysis for the following item of work: Cement concrete in foundation 12M 1:4:8 - unit 1 cu.m Assume materials and labour in the market rate.

*** END ***

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