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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR

(AUTONOMOUS)

B.Tech IV Year I Semester Regular Examinations Nov/Dec 2019**ESTIMATION, COSTING AND VALUATION****(CIVIL ENGINEERING)**

Time: 3 hours

Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

UNIT-I

- 1 Explain any three types of approximate estimates in detail. 12M

OR

- 2 Explain the following general items of work involved in the estimation for a building along with the process of calculations. 12M

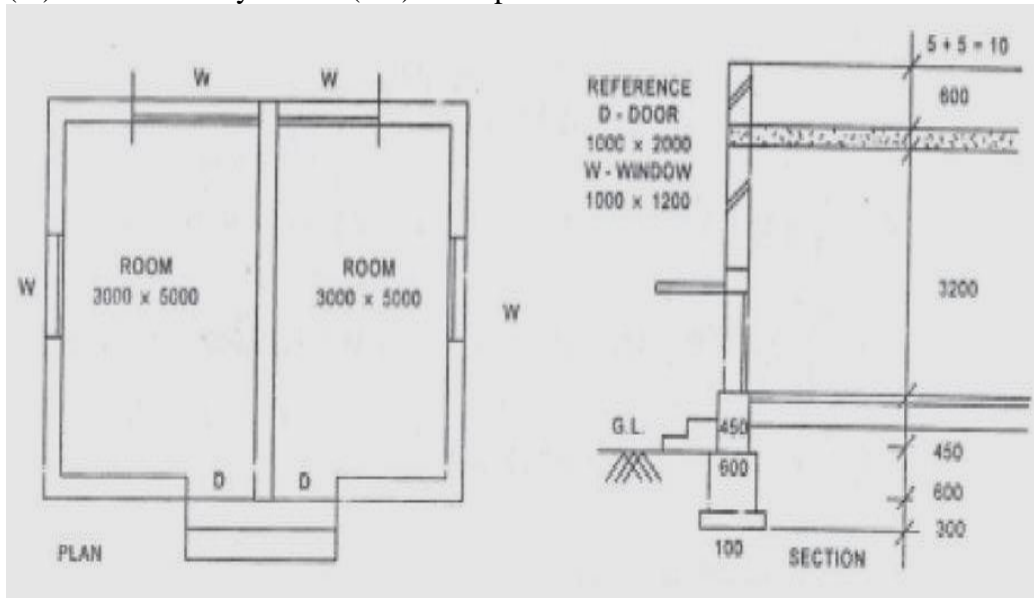
- (i) Earthwork in excavation & Earthwork in filling.
(ii) Concrete in Foundation
(iii) Brick flat soling.

UNIT-II

- 3 a Explain long wall and short wall method. 6M
b Explain Centre line method in detail. 6M

OR

- 4 Calculate the quantities of the following items for the building shown in figure using Centre line method. 12M
(i) Earth work in excavation
(ii) Brick work in foundation and plinth
(iii) Brick masonry in CM (1:6) for super structure.

**UNIT-III**

- 5 The formation width of a road embankment is 9.0 m. The side slopes are 2.5:1. The depths along the center line of road at 50.0 m intervals are 1.2, 1.1, 1.4, 1.2, 0.9, 1.5 and 1.0 m. It is required to calculate the quantity of earthwork by:
(i) Prismoidal rule. (ii) Trapezoidal rule. 12M

OR

- 6** A room 600 cm long and 500 cm wide has a flat roof. There is one T-beam in the center (cross Section below the slab 30cm X 50cm) and the slab is 15 cm thick. Estimate the quantity of iron Bars required for reinforcement (For the T-beam only) from the data given below. **12M**
- Main bars: 8 nos. - 25mm dia in 2 rows of 4 each (all 4 in the bottom being straight and others Bent) Stirrups: 10 mm dia and 15 cm c/c throughout. Anchor bars: 2 nos. - 16mm diameter.

UNIT-IV

- 7 a** What are the particulars of a typical tender notice? Explain. **6M**
b What are the conditions of contract? Explain. **6M**
- OR**
- 8** Explain the following briefly: **12M**
- (i) Municipal Tax.
 - (ii) Market Value.
 - (iii) Capital cost.
 - (iv) Yearly Purchase.

UNIT-V

- 9** Evaluate the cost of the following items of work. **12M**
- (i) Brick Masonry in super structure with CM 1:6.
 - (ii) Plastering with CM (1:4) of 12 mm thick.
 - (iii) Flooring with Kadapa slabs.
- OR**
- 10** Write briefly about the following: **12M**
- (i) Salvage Value.
 - (ii) Scrap value.
 - (iii) Annuity.
 - (iv) Book Value.
 - (v) Obsolescence.

*** END ***

