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JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -3 EXAMINATION- DEC- 2018 M-Tech (CM) 1st Semester

COURSE CODE: 10M11CE112

COURSE NAME: Estimation and Costing

COURSE CREDITS: 4

MAX. TIME: 2 Hrs

MAX. MARKS:35

Note: Q1 is compulsory. Select One Question from Each Unit of Part B. Carrying of mobile phone or sharing of materials during examinations will be treated as case of unfair means.

PART A

- Q1. (i) Define revised and supplementary estimate.
 - (ii) What is Bar Bending Schedule?
 - (iii) Name the type of specifications.
 - (iv) Enumerate any five general items of work and mention their units of measurement.
 - (v) How do you accounts for deductions for opening in the wall?
 - (vi) How is security money different from earnest money?
 - (vii) What is termination of contracts?
 - (viii) What do you understand by PWD work?
 - (ix) What is arbitration? What is the major advantage and disadvantage of it?
 - (x) Explain Rental Capitalization method of Valuation.

 $(1.5 \times 10 = 15)$

PART B

UNIT

- Q2. Prepare a detail estimate of building (Figure-1, given in the last page) using any method for the given plan section and general specification given as (dimensions are in metre unless and until specified)
 - (i) Earth work in excavation.
 - (ii) Brick work below plinth.

(iii) 2.5 mm thick D.P.C..

(5)

- Q3. Calculate the quantities of earth-work in cutting and banking for a portion road with following data:

 (5)
 - a) Formation width of road is 12 m.
 - b) Formation level of starting chainage is 51.50 m.
 - c) The road surface shall be given a falling gradient of 1 in 200

d) Side slope are 1V: 2H in banking and 1V: 1.5H in cutting.

Chainage (in m.)	0	30	60	90	120	150	180
G.L.(in m.)	50.80	50.60	50.70	51.20	51.40	51.30	51.0

UNIT II

- Q4. (a) What are general steps for preparation of analysis of rates?
 - **(b)** Write down unit of measurements, unit rate of payment and mode of measurement for following general items of work:
 - (i) Ballies

(ii) R.C.C.

(iii) D.P.C.

(iv) Plastering – Cement

(2+3=5)

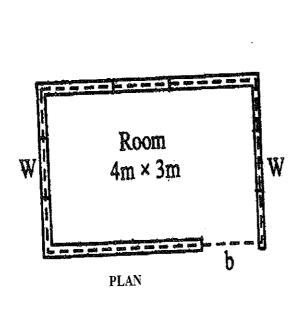
- Analyze the rate of the following items of the work. Assume suitable rate of material and Q5. labour.
 - a) R.C.C. work in column 1:1.5:3.
 - b) R.C.C. Brick work in Slabs etc. 1:3 mortar

UNIT III

- (a) Explain the general specification of First class Building? Q6.
 - (b) Describe different types of contracts.
- Explain the sequential procedure of opening of tenders. O7.

UNIT IV

- In a plot of land costing Rs 20,000.00, a building has been newly constructed at a total Q8. cost of Rs 80,000.00 including sanitary and water supply work, electrical installation, etc. The building consists of four flats for four tenants. The owner expects 8 per cent return on the cost of construction and 5 per cent return on cost of land. Calculate the standard rent for each flat of the building assuming:-
 - (i) The life of the building as 60 years and sinking fund will be created on 4 % interest
 - (ii) Annual repair cost at 1 % of the cost of construction.
 - (iii) Other outgoings including taxes at 30 % of the net return of the building. **(5)**
- What is the purpose of maintaining muster roll? How pay bill is prepared using muster Q9. **(5)** roll?



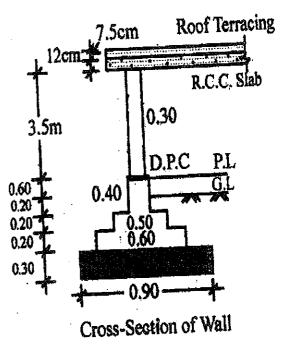


Figure 1

The End