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Question Paper Code: U7102S

B.E./B.Tech. DEGREE EXAMINATION, NOV 2024

Seventh Semester

Civil Engineering

21UCE702-ESTIMATING AND COSTING

(Regulations 2021)

Duration: Three hours

Maximum: 100 Marks

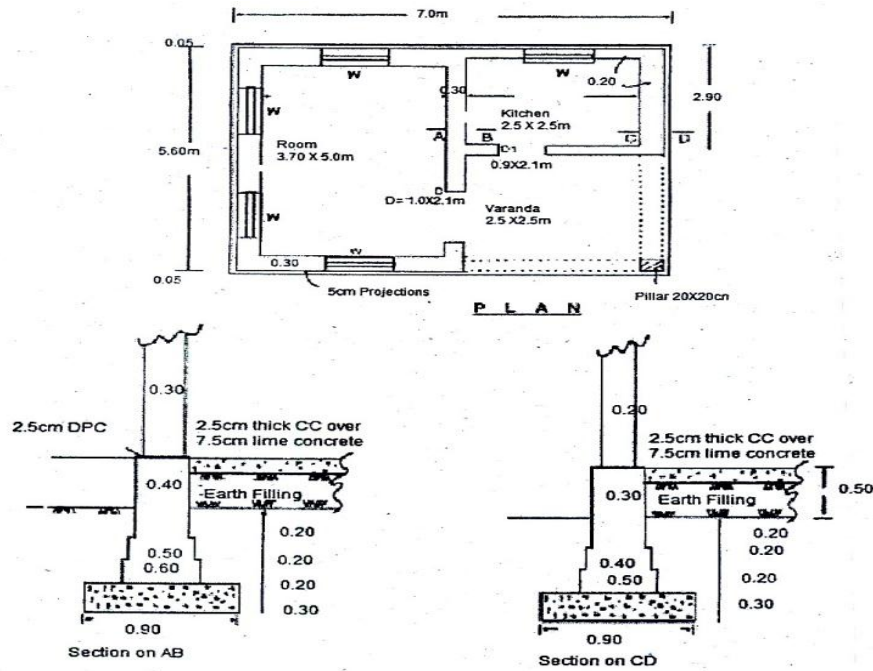
Answer All Questions

PART A - (10 x 2 = 20 Marks)

1. Estimate the quantities of brickwork and plastering required in a wall 4m long, 3m high and 30 cm thick. Calculate also the cost if the rate of brickwork is Rs.32.00 per cu.m and of plastering is Rs. 8.50 per sq.m CO2-App
2. State the unit of measurements for earth work, D.P.C and brick work. CO2-App
3. What are the methods of measurements of earthwork? CO1-U
4. Define a tender. CO1-U
5. State the necessity of report CO1-U
6. Write the essentials requirements of contract. CO1-U
7. What is arbitration? CO1-U
8. Define the Scrap Value. CO1-U
9. Define the Year's purchase CO1-U
10. Define sinking fund. CO1-U

PART – B (5 x 16= 80 Marks)

11. (a) Prepare a detailed estimate for Two roomed building shown in fig 1 by Centre line method. The quantities to be estimated are, CO2-App (16)
 1. Earthwork excavation in foundation.
 2. Lime concrete in foundation.
 3. Ist class brickwork in 1:6 cement sand mortar in foundation and up to plinth.



Or

- (b) Prepare an approximate estimate or rough cost estimate of a hospital building for 50 beds. The cost of construction altogether for each bed is Rs.60,000/- . Determine the total cost of hospital building. CO2-App (16)
12. (a) Prepare a rate analysis for R C C 1:2:4 for 150mmx300mm size of beams using 20mm size stone ballast with suitable reinforcement including bending, cranking and binding steel bars, centering and shuttering. CO2- App (16)
- Or
- (b) Prepare a rate analysis of material and labour including water charges and contractors profit for I-Class Brickwork in foundation and plinth with 20x10x10cm brick with cement sand mortar 1:6. CO2-App (16)
13. (a) Explain in detail about the preparation of tender notice and document CO4-App (16)
- Or
- (b) Discuss about the general and detailed specification of super structure work. CO4-App (16)
14. (a) Explain in detail about the various methods of Valuation of properties. CO4- App (16)
- Or
- (b) Write the important particulars in Drafting of contract documents based on IBRD /MORTH Standard bidding documents? CO4-App (16)

15. (a) Out list the procedure to work out the value of a property by rental method of valuation. CO4-App (16)

Or

- (b) Write Short note on the following terms: CO4-App (8+8)
- i) Discuss about free hold property.
 - ii) Explain the purposes of valuation.

