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09ARC66

Sixth Semester B.Arch. Degree Examination, June/July 2023
Estimation and Costing

Time: 3 hrs.

Max. Marks:100

- Note:** 1. Answer Q.No.1 compulsory and any FOUR from Q.No.2 to Q.No.8.
2. Follow written dimensions only.
3. Missing data, if any, may be suitably assumed.

- 1 Estimate the below mentioned items of work [Refer Fig.Q1]. (40 Marks)
- a. Calculate centre line-calculations
 - b. Earthwork excavation for foundation @ Rs. 200 per cu.m
 - c. P.C.C Bed foundation (1:4:8) @ Rs. 300 per cu.m.
 - d. First class brick masonry foundation @ Rs. 1500 per cu.m.

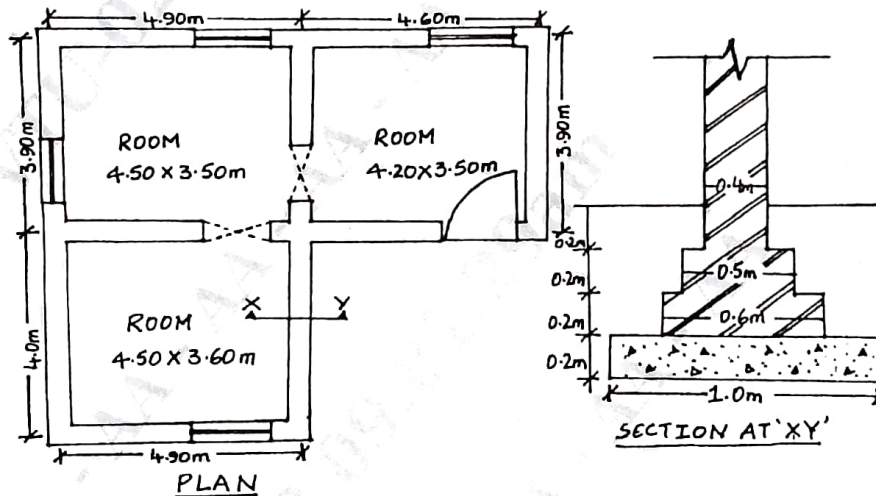


Fig.Q1

- 2 Write detailed technical specification for:
- a. Earthwork in excavation. (05 Marks)
 - b. DPC 1:3:6. (05 Marks)
 - c. Glazed tiles in skirting and Dado. (05 Marks)
- 3 Write technical specification for any three of the following :
- a. Ashlar masonry
 - b. White washing
 - c. Cement Mortar – Plastering
 - d. Brick work 1st class. (15 Marks)
- 4 Explain briefly :
- a. Explain briefly the types of estimate. (10 Marks)
 - b. Annual repair maintenance, annual maintenance AB and AM. (05 Marks)
- 5
- a. Define rate analysis and mention its purposes. (05 Marks)
 - b. Define the term contract. What are the essential requirements of a valid contract? (05 Marks)
 - c. What is tender? Explain different classifications of Tender. (05 Marks)

- 6 Calculate the quantity of earth work for 400mt length for a portion of road in a uniform ground the height of bank at two ends begin 7 and 1.4. The formation width is 7.0mt and side slope 2 : 1 (horizontal to vertical). Assume that there is no transverse slope. Calculate the quantity using method – I. (15 Marks)
- 7 Explain Analysis of Rates and over head costs. (15 Marks)
- 8 Prepare a detailed estimate of a R.C.C. beam of 8m clear span and 75cm × 40cm in section from the given drawings. Steel in detail and R.C.C. work shall be calculated separately. [Refer Fig.Q8].

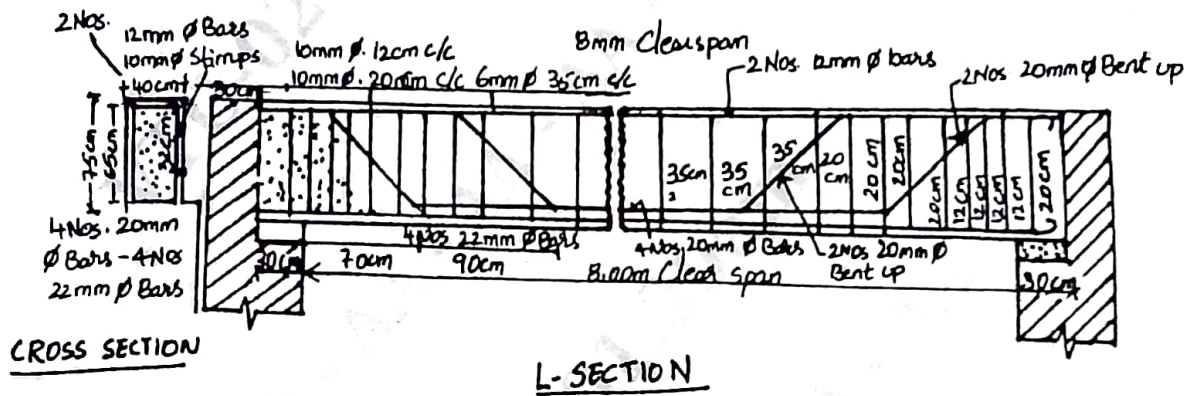


Fig.Q8

(15 Marks)
