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B.E / B.Tech (Part Time) DEGREE END SEMESTER EXAMINATIONS, NOV / DEC 2013

CIVIL ENGINEERING

VI Semester

PTCE 431/472/9404 Estimation, Costing and Valuation Engineering

(Regulation 2002,2005,2009)

Time : 3 Hours

Answer ALL Questions

Max. Marks 100

PART-A (10 x 2 = 20 Marks)

1. Enumerate the need for estimation
2. Define approximate estimate
3. List the softwares used for estimation
4. Define rate analysis
5. Enumerate the uses of specification
6. Explain digital signature certificate
7. List the types of contracts
8. Write a note on penalty for time overshoot of a project
9. Enumerate the need for valuation of property
10. Compare market value and guideline value

Part – B (5 x 16 = 80 marks)

11. Estimate the following items for the plan and section given in Fig 11

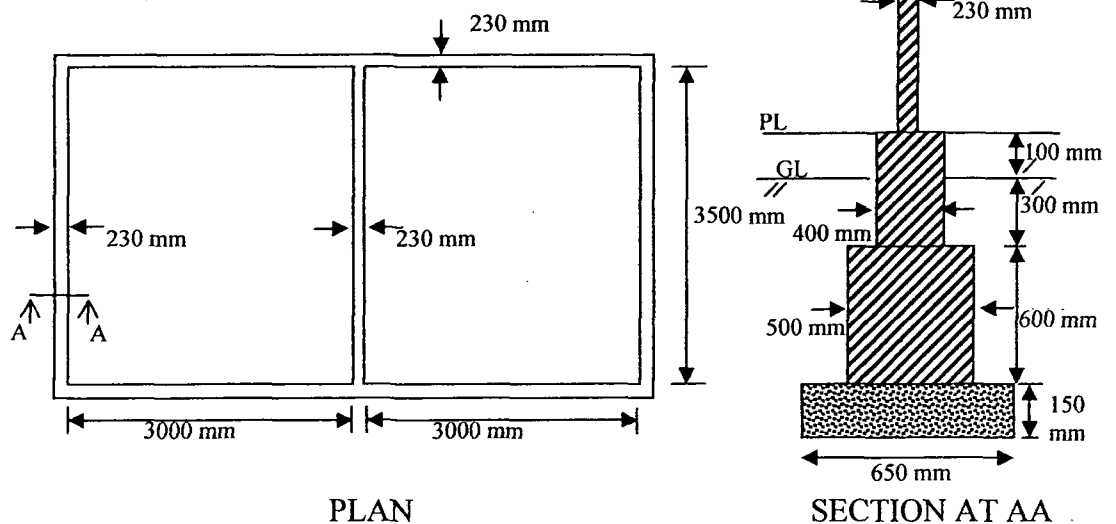


Fig. 11

- (i) Earthwork for excavation
- (ii) Plain cement concrete for foundation
- (iii) I class brickwork for foundation
- (iv) Concrete for roof slab (thickness of slab = 100 mm)

12. a) Explain the factors affecting the cost of a project. Discuss schedule of rates
(OR)
b) Explain standard data and the assessment of man hours, materials and machinery for common civil works with an example.
13. a) List the types of specification and explain each type in detail.
(OR)
b) Explain the process of tender opening and tender evaluation according to Tamilnadu Transparency in Tenders Act 2000
14. a) Write notes on (i) Earnest money deposit (ii) Security Deposit (iii) Mobilization advance (iv) Price variation clause
(OR)
b) Explain in detail arbitration and legal requirements of a contract.
15. a) Explain any two methods of calculating depreciation of property with examples
(OR)
b) Write notes on the following factors
 - (i) Compound interest factor
 - (ii) Discount factors
 - (iii) Rental method of valuation
 - (iv) Valuation based on cost