

22601

12425

03 Hours / 70 Marks

Seat No.

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- Instructions* –
- (1) All Questions are *Compulsory*.
 - (2) Answer each next main Question on a new page.
 - (3) Illustrate your answers with neat sketches wherever necessary.
 - (4) Figures to the right indicate full marks.
 - (5) Assume suitable data, if necessary.
 - (6) Use of Non-programmable Electronic Pocket Calculator is permissible.
 - (7) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.
 - (8) Use of Steam tables, logarithmic, Mollier's chart is permitted.

Marks

- 1. Attempt any FIVE of the following :** **10**
- a) State the conditions of termination of contract (Any four)
 - b) Write four requirements of valid contract.
 - c) Define all in one contract.
 - d) Define tender and state its types.
 - e) Define the terms –
 - i) Bill
 - ii) Voucher
 - f) Differentiate between cost and price.
 - g) Define Valuation.

P.T.O.

2. Attempt any THREE of the following : 12

- a) Draw the organizational structure of PWD and state the function of any two personals.
- b) Explain –
 - i) Administrative Approval
 - ii) Technical Sanction
 - iii) Budget Provision
 - iv) Expenditure Sanction.
- c) Explain piece work method and day's work method of PWD for carrying out work.
- d) Define contract and explain negotiated contract in detail.

3. Attempt any THREE of the following : 12

- a) Explain the objectives, advantages and disadvantages of B.O.T. (Built Operate Transfer).
- b) Enlist the classes of contractors on basis of Financial Limits in PWD.
- c) Draft a Tender Notice for inviting Applications for construction of Hostel for Boys costing 3.2 crores. Assume suitable data if required.
- d) Explain Arbitration. Explain the role of Arbitrator in settlement of disputes between Contractor and Owner.

4. Attempt any THREE of the following :**12**

- a) Enlist the various forms used in PWD with their uses.
- b) Explain the importance of NMR (Nominal Muster Role) in construction.
- c) Explain the terms –
 - i) Advance Payment
 - ii) Secured Advance
 - iii) Temporary Advance
 - iv) Measurement Book
- d) Describe the points to be observed in drafting the specification of an item.
- e) Enlist the different types of specifications and explain manufactures specification.

5. Attempt any TWO of the following :**12**

- a) Explain the terms –
 - i) EMD – Earnest Money Deposit.
 - ii) Security Deposit
 - iii) Global Tender
 - iv) Corrigendum to tender notice.
 - v) Schedule A, Schedule B and Schedule C
 - vi) Defect Liability Period.
- b) Define valuation and state six necessities of valuation.
- c) Explain the terms –
 - i) Book value
 - ii) Scrap value
 - iii) Salvage value
 - iv) Speculative value
 - v) Market value
 - vi) Sentimental value

6. Attempt any TWO of the following :**12**

- a) Explain the procedure of submitting filled tender document.
 - b) Give the detailed specification for R.C.C. slab for M25 grade.
 - c) A land measuring 350 sqm is purchased at a rate of 4000/- per sq.m. and a building of 130 sqm is constructed on it. The cost of construction is 6500/- per sq.m. If the return on cost of land is 8% and building is to be 10%. Calculate monthly rent of property. Assume all outgoing 30% of gross rent.
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