

# 22601

**12223**

**3 Hours / 70 Marks**

Seat No.

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- Instructions* – (1) All Questions are *Compulsory*.
- (2) Illustrate your answer with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data, if necessary.
- (5) Use of Non-programmable Electronic Pocket Calculator is permissible.
- (6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

**Marks**

- 1. Attempt any FIVE of the following: **10****
- a) State two object of contracts.
- b) Define the term “Termination of Contracts”.
- c) Define the term “Target Contract”
- d) State the necessity of Tender.
- e) State various account forms to be used in PWD for accounting.
- f) Define the term “Assessed Value”.
- g) Differentiate between Cost and Price.

P.T.O.

- 2. Attempt any THREE of the following:** **12**
- a) Draw organization structure of PWD. State functions of J.E.
  - b) Explain the term FIDIC contract.
  - c) Explain the use of Imprest cash and N.M.R.
  - d) State the different types of specification and explain any one type.
  - e) Describe the importance of specification in Civil Engineering Work.
- 3. Attempt any THREE of the following:** **12**
- a) Explain the rate list method for carrying out work.
  - b) Explain term :-
    - i) Administrative Approval.
    - ii) Technical sanction
    - iii) Budget provision
    - iv) Expenditure sanction
  - c) State the requirement of valid contract and explain in brief.
  - d) Define the following terms :-
    - i) Earnest money
    - ii) Validity period.
- 4. Attempt any THREE of the following:** **12**
- a) Justify the importance of BOT contract on the basis of objective and advantages.
  - b) Explain the term “right to reject one or all tenders”.
  - c) Differentiate between Advance Payment and Final Payment.
  - d) Define indent and invoice Rule out the form N0-7 of indent and invoice.

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

- a) Draft a tender notice for construction of Boy's hostel building at your polytechnic costing Rs. 5 crores. Assume suitable information if required.
- b) Explain the detailed procedure of submission filled tender and procedure of opening tender. (Two envelope system)
- c)
  - i) Explain necessity of Valuation.
  - ii) Differentiate between Depreciation and Obsolescence.

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

- a) Suggest suitable value of property for sale. Area of plots = 300 m<sup>2</sup>. Prevailing Rate of land = 6000/- per m<sup>2</sup> year of construction. 2008. Built up area of R.C.C building = 100 m<sup>2</sup>. Present cost of construction 10,000/- per m<sup>2</sup>. Assume life of construction 80 years and Rate of interest 6%.
- b) Draft a detailed specification for an item VCR masonry in cm (1:6) in substructure.
- c) A person has invested Rs 50,00,000/- in land and building expecting 6% return. The cost of land Rs 20,00,000/- Assume
  - i) Cost of annual repairs to be Rs 10,000/-
  - ii) management charges of Rs 5000/- per year
  - iii) Other out going at 20% of the gross rent.Calculate the reasonable monthly rent if annual sinking fund co-efficient be 0.01.

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