

# 17603

16172

**3 Hours / 100 Marks**

Seat No.

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

**Marks**

1. a) **Attempt any THREE of the following:** **12**
- (i) Write the two functions of Superintending Engineer and Executive Engineer in construction work.
  - (ii) Write the objects of contract.
  - (iii) State various documents required for registration of contractor in PWD.
  - (iv) Enlist only the tender documents.
  - (v) Explain the term “subletting of contract”.
- b) **Attempt any ONE of the following:** **6**
- (i) Explain the item rate contract method in detail and state the situation where it is used.
  - (ii) Explain the term security deposit and earnest money.

P.T.O.

- 2. Attempt any FOUR of the following:** **16**
- a) Draw the administrative set up chart of P.W.D.
  - b) Define terms Administrative approval and Technical sanction.
  - c) State classes of contractors and their capacities in P.W.D.
  - d) Explain the B.O.T. project and give any two examples.
  - e) State uses of N.M.R. and Imprest cash in PWD Accounts.
  - f) Discuss about petty advance and retention money. Give the situation under which it is given.
- 3. Attempt any FOUR of the following:** **16**
- a) Explain the schedule 'A' form. State its two uses.
  - b) Define escalation of cost and arbitration.
  - c) Define the term unbalanced tender. Give one example.
  - d) Differentiate between percentage rate contract and item rate contract with respect to four points.
  - e) List any four types of contract with their suitability.
- 4. a) Attempt any THREE of the following:** **12**
- (i) Define the term bill and voucher.
  - (ii) Write four circumstances under a lowest tender is rejected.
  - (iii) State the importance of specification.
  - (iv) State the meaning of speculative value and sentimental value.
- b) Attempt any ONE of the following:** **6**
- (i) State the requirements of valid contract.
  - (ii) State one use of measurement book, indent and invoice also draw their format in tabular form.

- 5. Attempt any TWO of the following:** **16**
- a) Draft a tender notice for construction of Principal's Bungalow for Government Polytechnic, Pune - 16, costing Rs. 25 lakhs. Assume suitable data.
- b) A building is newly constructed at the cost of Rs. 1,50,000 on a plot of 600 m<sup>2</sup> fix the monthly rent of this property from the following data.  
Rent of land Rs 50/m<sup>2</sup>  
Return expected on cost of land and building = 8%  
Life of building 60 years,  
Rate of interest for sinking fund = 3%  
Scrap value = 10% of cost of construction.  
Other outgoings = 30% of gross rent.
- c) A property consisting of land and building fetches a rent of Rs 12,000 per annum. The building is constructed in 1961. Total life of the building is estimated to be 80 years. Calculate the capitalized value of the building assuming investment at 8% security and allowing redemption capital at 5%. Assume usual outgoings at 30%.
- 6. Attempt any FOUR of the following:** **16**
- a) Draft a detailed specification for U.C.R. masonry work in C.M. (1:4) for foundation work.
- b) Draft a detailed specification for internal painting with 3 coats of dry distemper.
- c) State the different types of specifications. Give the details of any one specification.
- d) Define sinking fund and years purchase.
- e) Define depreciation. Give the four methods of depreciation.
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