

# 22601

**23242**

**3 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.

**Marks**

- 1. Attempt any FIVE of the following: **10****
- a) List any four types of contract.
- b) Define contract.
- c) State four conditions under which contract is terminated.
- d) List four tender documents.
- e) Define :
- i) NMR
- ii) Cash Book
- f) Define :
- i) Cost
- ii) Price
- g) Define valuation.

P.T.O.

- 2. Attempt any THREE of the following:** **12**
- a) Draw organizational structure of PWD.
  - b) Explain the procedure of initiating the government work by PWD.
  - c) State four functions of executive engineer.
  - d) Explain four requirements of valid contract.
- 3. Attempt any THREE of the following:** **12**
- a) List classes of contractor on basis of financial limits in PWD.
  - b) Differentiate between item rate contract and lump sum contract.
  - c) State four conditions where lowest tender is rejected.
  - d) Explain the procedure of submitting filled tender document.
- 4. Attempt any THREE of the following:** **12**
- a) Draw standard form of
    - i) Measurement book
    - ii) Nominal muster roll
  - b) Explain bills and voucher.
  - c) Explain petty advance and mobilization advance.
  - d) List the four points to be considered while framing specification of item.
  - e) Define specification. State types of specification.
- 5. Attempt any TWO of the following:** **12**
- a) Draft a tender notice for construction of a boys hostel building of ABC polytechnic costing Rs. 150 lakhs, assume suitable information if required.
  - b) Define depreciation and obsolescence. List methods of calculating depreciation.
  - c) Explain six necessities of valuations.

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

- a) Give the meaning of
  - i) Tender
  - ii) Earnest Money Deposit (EMD)
  - iii) Security Deposit
- b) Draft a detailed specification for RCC slab in cement concrete 1:1:2.
- c) A land measuring 300 sqm is purchased at a rate of Rs. 3000/- per sqm and building of 100 sqm area is constructed on it. The cost of construction is 6000/- per sqm. If the return on cost of land is 5% and building is to be 7%.

Calculate monthly rent of property.

Assume all outgoings 20% of gross rent.

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