

22601

21222

3 Hours / 70 Marks

Seat No.

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15 minutes extra for each hour

- 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) Define contract.
 - b) List four objects of contract.
 - c) Define engineering procurement construction contract.
 - d) List four tender documents.
 - e) Write the use of indent.
 - f) State four necessities of valuation.
 - g) Define book value and market value.

P.T.O.

- 2. Attempt any THREE of the following:** **12**
- a) Draw organizational structure of PWD.
 - b) Give the meaning of –
 - (i) Administrative approval
 - (ii) Technical sanction
 - c) State four functions of Junior Engineer.
 - d) Explain four requirements of valid contract.
- 3. Attempt any THREE of the following:** **12**
- a) List eight documents required for the registration as a contractor..
 - b) Differentiate between item rate contract and percentage rate contract. (Four points)
 - c) State eight conditions where lowest tender is rejected.
 - d) Define arbitrator and state four qualities of good arbitrator.
- 4. Attempt any THREE of the following:** **12**
- a) State the importance of measurement book.
 - b) Explain bills and voucher.
 - c) Differentiate between advance payment and secured advance payment. (Four points)
 - d) List the four points to be considered while framing specification of item.
 - e) Define specification. State three purposes of specification.

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

- a) Draft a tender notice for construction of a workshop building of a new polytechnic costing Rs. 100 lakhs, assume suitable information if required.
- b) Define depreciation. List two methods of calculating depreciation. Explain one method in brief.
- c) Define outgoings and explain four outgoings with their %.

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

- a) Give the meaning of –
 - (i) Security deposit,
 - (ii) Earnest money,
 - (iii) Validity period.
- b) Draft a detailed specification for RCC slab in CC - 1:1:2.
- c) A land measuring 200 sq.m is purchased at a rate of Rs. 3500/- per sq.m. and building of 100 sq.m area is constructed on it. The cost of construction is 7000/- per sq.m. If the return on the cost of land is 8% and building is to be 10%. Calculate monthly rent of property.
Assume all outgoings 30% of gross rent.
