

17603

11920

3 Hours / 100 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. a) Attempt any THREE of the following: **12**
- (i) State any four methods used in PWD for execution of work. Explain any one in brief.
- (ii) State any four requirements of valid contract.
- (iii) List any four types of contract. Explain percentage rate contract.
- (iv) List out eight points to be included while drafting tender notice.
- (v) Define :
- 1) Earnest Money Deposit
 - 2) Security Money Deposit
 - 3) NMR
 - 4) Cash Book.

P.T.O.

1. b) **Attempt any ONE of the following:** **6**
- (i) Explain piece work method used in PWD.
 - (ii) Draw standard form of :
 - 1) Measurement book
 - 2) Nominal muster roll.
2. **Attempt any FOUR of the following:** **16**
- a) State any four functions of Executive Engineer of PWD.
 - b) Explain in brief Technical Sanction and Administrative approval.
 - c) Define contract. State its objects.
 - d) Explain Lump Sum Contract.
 - e) List any eight forms used in PWD. Explain any one.
 - f) Define interim payment and state purpose of interim payment.
3. **Attempt any FOUR of the following:** **16**
- a) Define Arbitrator. State qualities of arbitrator.
 - b) Explain in brief 'Schedule A' and 'Schedule B'.
 - c) Explain any four situations when contract is terminated.
 - d) Differentiate between item rate contract and percentage rate contract.
 - e) Explain BOT projects with respect to objectives, advantages and disadvantages.
4. a) **Attempt any THREE of the following:** **12**
- (i) List different types of advances granted to contractor. Explain any one in brief.
 - (ii) Explain 'Defect liability period' and liquidated damage.
 - (iii) State points to be considered while drafting specifications.
 - (iv) Define 'Depreciation'. List different methods of calculating depreciation.

- 4. b) Attempt any ONE of the following: 6**
- (i) Explain demolition contract in detail.
 - (ii) State six precautions to be taken while making entries in measurement book.
- 5. Attempt any TWO of the following: 16**
- a) Draft tender notice for Hospital Building costing Rs.50 Lakhs covering all important points.
 - b) A person purchases plot measuring 600 sq.m @ 900 per/m². He constructs building having 200m² built up area, Cost of construction being Rs.700/m² He desires to have net return 6% on building cost and net return of 5% on land cost, assuming out going 22% of gross income. Suggest suitable rent for property.
 - c) Explain :
 - (i) Market value
 - (ii) Book value
 - (iii) Scrap value
 - (iv) Salvage value.
- 6. Attempt any FOUR of the following: 16**
- a) Draft detailed specification for PLL foundation bed in cement concrete 1:2:4.
 - b) Explain in brief legal aspect of specification.
 - c) Enlist types of specifications and explain any one in brief.
 - d) Define value of property. State factors affecting value.
 - e) Explain various types of outgoings.
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