

17603

21819

3 Hours / 100 Marks

Seat No.

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- Instructions* – (1) All Questions are *Compulsory*.
(2) Figures to the right indicate full marks.
(3) Assume suitable data, if necessary.
(4) Use of Non-programmable Electronic Pocket Calculator is permissible.
(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) Define:
 - 1) Administrative approval
 - 2) Technical sanction
 - (ii) Define contract and state the objects of contract.
 - (iii) State any four requirements of a valid contract.
 - (iv) State purposes of calling tender.
 - (v) Describe in brief secured advance.
- b) **Attempt any ONE of the following:** **6**
- (i) Draw an organizational chart of a state PWD.
 - (ii) State functions of Executive Engineer and Junior Engineer.

P.T.O.

- 2. Attempt any FOUR of the following:** **16**
- a) Define item rate contract. State its suitability.
 - b) State advantages and limitations of negotiated contract.
 - c) Define petty advance and temporary advance.
 - d) Draw formats of schedule A and schedule B. State purposes of both.
 - e) State types of payments made to a contractor.
 - f) Define retention money and reduced rate payment.
- 3. Attempt any FOUR of the following:** **16**
- a) State list of documents required for a registration as a contractor with state government.
 - b) Define BOT project? State any three advantages of BOT project.
 - c) Draw format of a measurement book. State any two precautions to be taken while writing in M.B
 - d) Describe in brief mobilization advance.
 - e) State any four purpose of drafting specification.
 - f) State types of specifications.
- 4. a) Attempt any THREE of the following:** **12**
- (i) Describe in brief nominal muster roll.
 - (ii) Define:
 - 1) Imprest
 - 2) Indent
 - 3) Invoice
 - 4) Voucher.
 - (iii) State any four legal aspects of a specification.
 - (iv) Define cost and price.

- b) **Attempt any ONE of the following:** **6**
- (i) Draft specification for IInd class B.B.M in 1:6 cement mortar.
 - (ii) Define depreciation and explain in brief methods of calculating depreciation.
- 5. Attempt any FOUR of the following:** **16**
- a) State any four factors affecting a value.
 - b) Define:
 - (i) Speculative value
 - (ii) Dispass value
 - c) State meaning of target contract and demolition contract.
 - d) State advantages of cost plus fixed percentage contract and cost plus fixed fee contract.
 - e) Define:
 - (i) Time limit
 - (ii) Validity of tender.
 - f) State the necessity of corrigendum to tender notice.
- 6. Attempt any TWO of the following:** **16**
- a) Draft a tender notice for a construction of a library building in a government polytechnic. Estimated cost is Rs. 3 Crs.
 - b) Suggest suitable rent for building 100 sq.m constructed on a plot 300 sq.m. The rate of construction is Rs. 15000 per sq.m. The land is purchased at Rs. 1000 per sq.m owner expects 8% return on the land and 12% return on the building. The municipal tax is 25%, other expenses are Rs 1000 per month.
 - c) (i) Calculate value of a property in the form of a godown which fetches monthly net rent Rs. 6000. The owner expects 10% yield.
(ii) Calculate sinking fund for a JCB. Cost of JCB = 28 lacs. Life 10 years, rate of interest 6%. Assume 10% scarp value.
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