

12220

15116

3 Hours / 100 Marks

Seat No.

--	--	--	--	--	--	--	--

- 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. a) Attempt any THREE of the following: 12
- (i) What is technical sanction?
 - (ii) Explain departmental method of carrying out civil work.
 - (iii) State factors affecting value.
 - (iv) Define price and value. State one example of each.
- b) Attempt any ONE of the following: 06
- (i) Draft a Tender notice for construction of W.B.M. (O.D.Road) costing Rs. 40 lacs.
 - (ii) What is BOT project? State advantages and disadvantages. State one example.

P.T.O.

- 2. Attempt any FOUR of the following:** **16**
- a) Draw organizational chart of P.W.D. Explain any two functions of Executive Engineer.
 - b) What do you mean by day work method? Where it is suitable?
 - c) Define contract. State four objectives of contract.
 - d) State any four requirements of valid contracts?
 - e) What is negotiated contract? Where it is suitable?
 - f) Explain item rate contract in brief. State its suitability.
- 3. Attempt any FOUR of the following:** **16**
- a) Why registration is required for contractors. State classes of contractor.
 - b) What cost plus fixed fee contract? State one example.
 - c) Why tenders are necessary? State types of tenders.
 - d) Define Security Deposit. State a situation when it is forfeited.
 - e) What is the procedure of scrutiny of tenders?
 - f) Define defect liability period. How it is counted?
- 4. a) Attempt any THREE of the following:** **12**
- (i) Define:
 - 1) Earnest money
 - 2) Validity period
 - (ii) Define:
 - 1) Scrap value
 - 2) Salvage value
 - (iii) What is depreciation? State suitable method of calculating depreciation for a building.
 - (iv) Define:
 - 1) Sinking fund
 - 2) Obsolescence

b) Attempt any ONE of the following:**06**

- (i) What is Arbitration? State desired qualifications of Arbitrator.
- (ii) Suggest a suitable value for a property from following data
 - 1) Year of construction 1982
 - 2) R.C.C. Single storeyed bungalow - Built up area 80 sq.m.
 - 3) Area of plot 200 sq.m.
 - 4) Expected life of building 80 years.
 - 5) Prevailing rate of plot is Rs. 3000 per sq.m. and for construction is Rs.10000 per sq.m.

5. Attempt any FOUR of the following:**16**

- a) Suggest a suitable rent for a property from following data.
 - (i) Area of plot 300 sq.m.
 - (ii) Built up area 150 sq.m.
 - (iii) Municipal Taxes 25% of gross rent
 - (iv) Monthly maintenance Rs. 500.

Prevailing rate of construction Rs. 10000 per sq.m. and plot is purchased at Rs. 2000 per sq.m. Owner expects 12% return on building and 8% return on land investment.
- b) State types of payments made to the contractor.
- c) Define secured advance. State the situations where it is given to the contractor.
- d) What is mean by reduced rate payment and mobilization advance.
- e) Sate points to be observed in framing specifications.
- f) Write specification for second class BBM in 1:6 C.M. for super structure.

6. Attempt any FOUR of the following:**16**

- a) Draw a format of measurement book. State precautions for writing in measurement book.
 - b) What is NMR? State its purpose. Draw format for NMR.
 - c) State types of specification. Explain any one type.
 - d) State legal aspects of specifications.
 - e) What is Imprest cash and Temporary Advance?
 - f) What budget provision? State meaning of unbalanced tender.
-