

12220

11122

3 Hours / 100 Marks

Seat No.

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- Instructions* – (1) All Questions are *compulsory*.
- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data, if necessary.
- (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) What are the functions of the superintending engineer.
- (ii) Draw organization structure of PWD.
- (iii) Explain terms technical sanction and budget provisions.
- (iv) Differentiate between daily wages method and piece work method.
- b) Attempt any **ONE** of the following: **6**
- (i) Define muster roll? Write rules for writing a muster roll.
- (ii) Define contract? Write requirements of valid contract.

P.T.O.

- 2. Attempt any FOUR of the following:** **16**
- a) What is lumpsum contract? Write three advantages?
 - b) Explain terms labour contract and demolition contract.
 - c) State two advantages and disadvantages of cost plus percentage rate contract?
 - d) Enlist documents required for registration as a contractor with P.W.D.
 - e) What is BOT? Explain briefly with suitable example.
- 3. Attempt any FOUR of the following:** **16**
- a) Define Tender? State the types of tender.
 - b) Explain terms estimated cost, time limit, earnest money, security deposit.
 - c) Under what circumstances a tender is rejected?
 - d) Explain Arbitration and Defect liability period.
 - e) What is schedule 'A'. Rule out a page for schedule 'A'?
- 4. a) Attempt any THREE of the following:** **12**
- (i) What is measurement book? What points should be considered while making entries in measurement book?
 - (ii) What is nominal muster roll? Rule a page of nominal muster roll?
 - (iii) Differentiate between secured advance and advance payment.
 - (iv) Explain Imprest cash and Indent.
- b) Attempt any ONE of the following:** **6**
- (i) Define valuation. State the factors affecting value.
 - (ii) What is Depreciation? What are the methods of calculation of depreciation?

5. Attempt any **TWO** of the following: 16
- a) Draft a tender notice for the construction of Girls Hostel Building at your place costing Rs. 1.5 cores. Assume suitable data.
 - b) Differentiate:
 - (i) Running Bill and Final Bill
 - (ii) Secured advance and Advance payment
 - c) Write method of writing specifications? What is the sequence for specification paragraph?
6. Attempt any **TWO** of the following: 16
- a) Write detailed specifications for P.C.C. (1: 4: 8) for foundation concrete.
 - b) Work out the book value of an asset costing Rs. 60,000 after 10 years life of the asset is 50 years and its salvage value is Rs. 3,000. What will be the book value when the salvage value is nil?
 - c) Suggest the suitable rent per month of a residential bungalow from the following data:
 - (i) Plot 300m^2 @ Rs 300 per m^2
 - (ii) Building 120m^2 @ Rs 1,200 per m^2
 - (iii) Return expected on construction cost @ 12%
 - (iv) Return expected on cost of plot @ 8%
 - (v) Total outgoings = 30% of gross rent
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