22601

Seat No.

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) 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. **Attempt any FIVE of the following :** 10

a) Enlist any four requirements of valid contract.

b) State four objects of contract.

c) State two advantages and disadvantages of cost plus percentage rate contract.

d) Define tender. Enlist its types.

e) Draw format of measurement book.

f) Define : Book value, Monopoly value.

g) Give the meaning of depreciation.

2. **Attempt any THREE of the following :** **12**

    a) State the functions of Junior Engineer.

    b) Explain 'Rate list Method' of construction used in PWD to carry out work.

    c) Draw administrative setup chart of PWD.

    d) List the documents to be submitted at the time of registration as a contractor.

3. **Attempt any THREE of the following :** **12**

    a) Explain B.O.T. projects w.r.t. objectives advantages and disadvantages.

    b) Differentiate between Lumpsum contract and item rate contract.

    c) Write eight conditions when lowest tender is rejected.

    d) Explain two envelope system of submission of tender.

4. **Attempt any THREE of the following :** **12**

    a) State precautions to be taken while making entries in M.B.

    b) Explain :

        i) Retention money

        ii) Mobilisation advance

    c) Define interim payment. Give its necessity and form number.

    d) Define specification. Give its importance.

    e) Enlist four types of specification and explain any one.

Marks

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

a) Explain unbalanced tender with suitable example.

b) Explain various types of outgoings and give their percentage.

c) A land of 500 sq.m area is purchased by a person at Rs. 50/- per sq.m. and a house of 200 sq.m. plinth area is constructed at the rate of Rs. 900/- per sq.m. He desires return on cost of land at 6% and on cost of house 10%. Workout the rent per month for a property if outgoings are 30% of gross income.

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

a) Draft a tender notice for construction of new girls hostel building in G.P., Nanded costing 2 crores to be invited by E.E. (PWD).

b) Draft a detailed specification for R.C.C. work for slab in C.C. 1:2:4 proportion.

c) Calculate the capital value of a property from following data –

i) Rent inclusive of all taxes = Rs. 400/- month

ii) Outgoings 20% of Gross rent

iii) Net yield expected from property = 6%

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