

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/ MANAGEMENT/
COMMERCIAL PRACTICE, NOVEMBER-2020**

QUANTITY SURVEYING II AND VALUATION

[Maximum marks: 100]

(Time: 3 Hours)

- [Note: 1. Missing data may be assumed suitably.
2. Quantities to be worked out in standard form.
3. Sketches to be accompanied].

PART – A

[Maximum marks: 10]

(Answer all questions in one or two sentences. Each question carries 2 marks)

I. (1). Write down the standard units of following items:

(a). Pointing of basement. (b). Steel roof truss.

(2). Find out the length of the king post, if the span and pitch of the roof is 6m and 1/3 respectively.

(3). Write the difference between a Culvert and a Bridge.

(4). What are the two types of specifications?

(5). Define the term valuation.

(5 x 2 = 10)

PART – B

[Maximum marks: 30]

(Answer any *five* of the following questions. Each question carries six marks)

II. (1). Work out the quantity of Brick masonry in C.M. 1:4 for walls of the septic tank shown in Fig.1.

(2). Work out the total quantity of plastering of 20mm thick cement plaster 1:2 with standard water proofing compound in the walls and floors of the septic tank shown in Fig.1.

(3). Define the terms.

(a). Slab culvert. (b). Pipe culvert. (c). Retaining wall.

(4). What is a bar bending schedule? Draw the typical bar bending schedule.

(5). Write down the detailed specification for painting work.

(6). Explain any six purposes of valuation.

(7). What is meant by the term outgoing? Explain any five types of outgoings.

(5 x 6 = 30)

PART – C

[Maximum marks: 60]

(Answer one full question from each unit. Each question carries 15 marks)

UNIT –I

- III. (a). Work out the quantity of Random rubble in CM 1:6 for foundation and basement of the residential building shown in Fig.2 (8)
- (b). Work out the quantity of Earth work excavation for foundation of the residential building shown in Fig.2 (7)

OR

- IV. Work out the quantity of Brick Masonry in CM 1:6 for superstructure of the residential building shown in the Fig.2 (15)

UNIT-II

- V. Work out the quantity of reinforcement for the R.C.C. Retaining wall shown in Fig.3. (15)

OR

- VI. (a). Work out the quantity of the brick work in C.M. 1:5 in foundation footings (3 Nos.) upto bed level of the bridge pier shown in Fig.4 (10)
- (b). Calculate the quantity of R.C.C. 1:1:5:3 using 20mm broken stones for duck slab for the slab culvert shown in Fig.5. (5)

UNIT-III

- VII. (a). Write down the detailed specification of Earthwork excavation and R.C.C. (8)
- (b). Calculate the quantity of R.C.C. 1:1:5:3 for through of the aqueduct shown in Fig.6. (7)

OR

- VIII. Prepare bar bending schedule of a R.C.C. Beam given in Fig.7. (15)

UNIT-IV

- IX. (a). Explain the different methods of valuation. (8)
- (b). Define the terms Scrap value, Salvage value, Market value, Book value, Sinking fund, Depreciation, Year's purchase. (7)

OR

X. A concrete mixer was purchased at a rate of Rs.8000 assuming the scrap value of mixer as Rs.1000 after 5 years. Calculate the depreciation of each year by the following methods.

(a). Straight line method. (b). Constant percentage method.

(15)



