

QUANTITY SURVEYING AND VALUATION
6th Exam/Civil/8517/Nov'24
(For 2018 Batch onwards)

Duration: 3Hrs.

M.Marks:75

SECTION-A

Q1. a) State the unit of measurement for the following.

15x1=15

- i. Plastering
- ii. Flooring
- iii. Brickwork

b) Define the following.

- iv. Analysis of rates
- v. Agreement
- vi. Contract
- vii. Contractor
- viii. CSR stands for.
- ix. Tender
- x. Sinking Fund
- xi. Salvage Value
- xii. Book value
- xiii. Estimate
- xiv. DPC stands for.
- xv. Material statements

SECTION-B

Q2. Attempt any six questions.

6x5=30

- a. What are the duties of Quantity Surveyor?
- b. Briefly explain Centre Line Method of building estimate.
- c. Find out dry materials required for 1m³ cement concrete 1:2:4 in foundation.
- d. Find out dry materials required for 1m³ brick masonry in cement sand mortar 1:5.
- e. What is the importance of rate analysis?
- f. What are the requirements of a valid contract?
- g. What is common schedule of rates?
- h. What is the purpose of valuation?
- i. Write a short note on Lump sum Contract.

SECTION-C

Q3. Attempt any three questions.

3x10=30

- i. A short link road is to be constructed entirely in cutting at a uniform rising gradient 1 in 30. The Natural Surface levels are given below:

R.D.	0	30	60	90	120	150
N.S. level	70.50	69.30	71.40	74.00	75.10	73.50

If the formation level at Rd 0 is 65 meters, estimate the quantity of cutting for a formation width of 10 meters. The side slope is 2:1 (Horizontal: vertical) and there is no cross slope. Also find out the cost of cutting only @ ₹450 per m³.

- ii. Work out the analyses of rates for brick masonry cement mortars 1:4 in superstructure. Labour for 10m³ brick masonry 8 Masson @ Rs. 650/- per day; 15 mazdoor @ Rs. 500/-; 2 Bhisti @ Rs. 250/- per day. Rate of material: - cement bag Rs. 420/-, Sand Rs. 850/- per m³, Bricks 7200/- per thousand.
- iii. Explain the various methods of valuation.

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- iv. What is the meaning of contract? Explain different types of contract.
- v. Work out the quantity of following items from the given drawing: -
 - a. Excavation for foundation
 - b. Cement concrete 1:6:18 in foundation
 - c. Brick masonry in cement mortar 1:7 in foundation and plinth
 - d. Brick masonry in 1:5 super structures.

