

No. of Printed Pages : 4  
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**6th Sem / (Civil Engg./Constr. Mgmt. Civil Engg.  
(Spl. Highway Engg.)  
Sub.: Quantity Surveying**

Time : 3Hrs.

M.M. : 100

**SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 Cubic content should be measured in \_\_\_\_\_  
a) Cubic Metre      b) Sq. Cm.  
c) Sq. Metre      d) Sq. Ft.
- Q.2 When work is partially abandoned and remaining work is less than 95% of the actual work is called an \_\_\_\_\_  
a) Revised estimate  
b) Supplementary estimate  
c) Supplementary and Revised estimate  
d) Annual Repair Estimate
- Q.3 The volume is measured correct to the nearest  
a) 0.01 cum      b) 0.02 cum  
c) 0.03 cum      d) 0.04 cum
- Q.4 The essential element of contract is  
a) Security deposit      b) Estimated cost  
c) Offer & acceptance      d) Tender notice
- Q.5 For Brickwork, no deduction is made for area of opening upto  
a) 0.1 sq.m      b) 0.2 sq.m  
c) 0.5 sq.m      d) 1 sq.m
- Q.6 Which of the following is not a method of calculating Depreciation  
a) Straight line method

- b) Years purchase method  
c) Constant percentage method  
d) Sinking fund method

Q.7 The rate of an item of work depends on

- a) Specification of works  
b) Specifications of materials  
c) Proportion of mortar  
d) All of above

Q.8 The capacity of doing work by skilled labour in the form of quantity of work per day is known as

- a) Task work      b) Out turn of the labour  
c) Both A & B      d) None of these

Q.9 Original cost of property minus depreciation is

- a) Reliable value      b) Book value  
c) Salvage value      d) Obsalence value

Q.10 Provision for work charged establishment are made as follow

- a) 5% to 10%      b) 5% to 8%  
c) 3% to 5%      d) 1.5% to 2%

**SECTION-B**

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

Q.11 Define Estimate.

Q.12 Rough cost estimate for hospital are prepared on \_\_\_\_\_ basis.

Q.13 Define contractor Profit.

Q.14 For 1 cum of brick work \_\_\_\_\_ bricks are required.

Q.15 Unit measurement for D.P.C. is \_\_\_\_\_.

Q.16 Define open tender.

Q.17 Define lead.

Q.18 Define capital value.

Q.19 Scrap value is generally \_\_\_\_\_ % of total cost of construction.

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Q.20 Define salvage value.

### SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

Q.21 What are the duties of quantity surveyor?

Q.22 Explain types of Detailed estimates.

Q.23 Describe long and short wall method of finding out quantities.

Q.24 What is the principle of unit of various items of works.

Q.25 Briefly explain earthwork for unlined canal.

Q.26 Write down the factor affecting rate of analysis.

Q.27 What is task work per day?

Q.28 Fine out dry materials required for 1m<sup>3</sup> brick masonry in cement sand mortar 1:5.

Q.29 Find out dry materials required for 1m<sup>3</sup> course rubble stone masonry 1:7.

Q.30 What do you understand by term contract? Explain in detail.

Q.31 What is the difference between security deposite and retention Money.

Q.32 Prepare the tender documents for sewer lines.

Q.33 Explain item Rate contracts with its advantages.

Q.34 What is the purpose of valuation?

Q.35 What are the different method of computing depreciation?

### SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

Q.36 Prepare the analysis of rate for brickwork in cement mortar 1:5 in super structure. Labour required for 10m<sup>3</sup> of brickwork is?

Masons=9 Nos, Labour=20 Nos

(3) 180763/120763/30763

Q.37 A short link road is to be constructed entirely in cutting at a uniform rising gradient 1 in 30.

The N.S level are given below.

Rd	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 65m. estimate the quantity of cutting for a formation width of 10m. The side slope is 2:1 and there is no cross-slope. Also, find the cost of cutting @ Rs. 450.00 m<sup>3</sup>

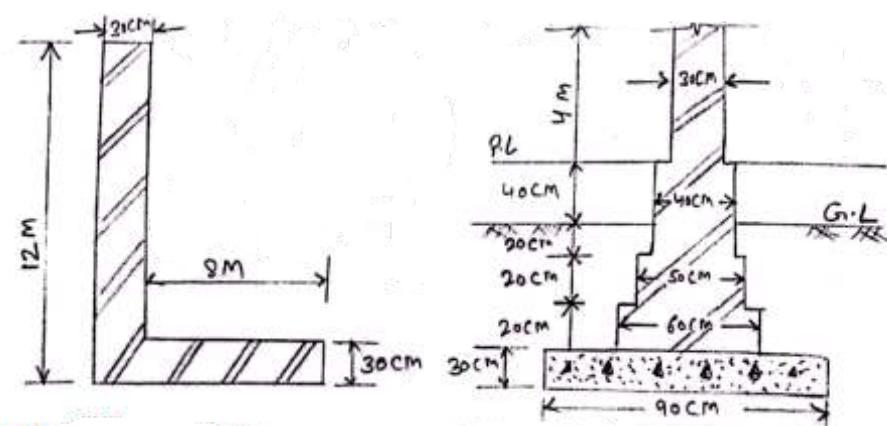
Q.38 Work out the quantities of the following items work for L-shaped wall as shown in figure.

a) Excavation for foundation

b) Cement concrete 1:4:8 in foundation

c) I-class brick masonry 1:4 in foundation and plinth

d) I-Class brick masonry 1:4 in super structure



(2080)

(4) 180763/120763/30763