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Roll No. ....

**6th Sem / Civil, Constr. Mgmt, Civil Engg ( Spl Highway Engg)**

**Subject:- Quantity Surveying & Valuation**

Time : 3Hrs.

M.M. : 100

**SECTION-A**

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

- Q.1 Which of the following is the purpose of valuation?  
a) Approximate estimation of cost  
b) Taxation  
c) Detailed estimation of cost  
d) Analysis of rate
- Q.2 Which of the following estimate is carried out if the sanctioned estimate exceeds 10% due to change in the price?  
a) Detailed Estimate      b) Plinth Area Estimate  
c) Supplementary Estimate  
d) Revised Estimate
- Q.3 Which of the following is measured in square meter?  
a) Cornice  
b) Concrete Work  
c) Shuttering  
d) Steel Bar reinforcement
- Q.4 Deduction at cross wall for total length of the center line is  
a) Thickness of wall      b) No deduction  
c) Twice the thickness of wall  
d) Half of thickness of wall
- Q.5 What percentage of the total cost is added in the cost of the construction for contingencies?  
a) 2%                              b) 5%  
c) 1%                              d) 15%

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- Q.6 The volume is measured correct to the nearest  
a) 0.1 cum                      b) 0.01 Cum  
c) 0.02 cum                      d) 0.001 Cum

- Q.7 Factors affecting the analysis of rate are  
a) Specification of items  
b) Rate of materials  
c) Wages of Labour  
d) All of the above

- Q.8 The approximate volume of cement required to prepare 10 m<sup>3</sup> of 1:2:4 Concrete is  
a) 1.6 m<sup>3</sup>                              b) 3.2 m<sup>3</sup>  
c) 2.5 m<sup>3</sup>                              d) 2.2 m<sup>3</sup>

- Q.9 The money which the contractor has to deposit with the department when the contract is allotted to him  
a) Earnest Money              b) Security Money  
c) Retention Money              d) Both C and D

- Q.10 The Value of property at the end of its useful life without being dismantled is known as  
a) Salvage Value              b) Scrap Value  
c) Book Value                      d) Junk Value

**SECTION-B**

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

- Q.11 Name the types of estimates.
- Q.12 The useful part of the livable area of a building is known as \_\_\_\_\_.
- Q.13 First class brickwork in cement mortar in 1:5 in superstructure is measured in \_\_\_\_\_.
- Q.14 The thickness of plastering in indoor walls is \_\_\_\_\_.
- Q.15 Draw Abstract of Cost Form.
- Q.16 Item rate contract is also known as \_\_\_\_\_.
- Q.17 The rivets, bolts and nuts are measured in \_\_\_\_\_.
- Q.18 Gradual decrease in the value of property is known as \_\_\_\_\_.

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- Q.19 The type of contract in which the contractor agrees to execute the work as per supplied drawings is \_\_\_\_\_.
- Q.20 The Weight of 12 mm dia steel reinforcement per metre length is \_\_\_\_\_.

### SECTION-C

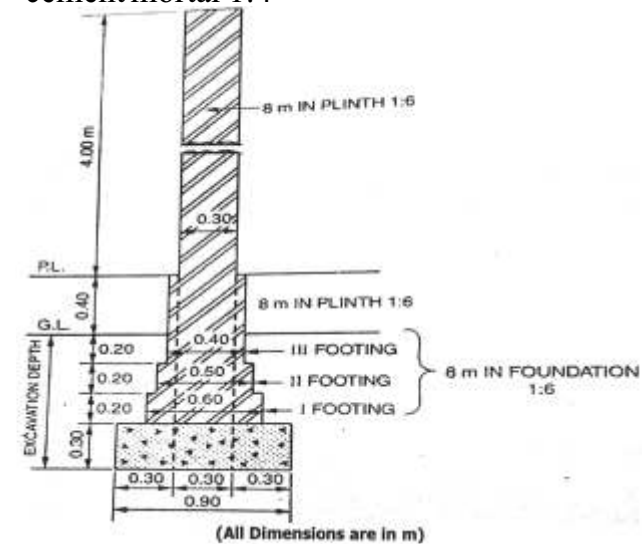
- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 What is necessity of making rough cost estimate before starting any civil engineering project?
- Q.22 Differentiate between plinth area estimate & cubical content estimate.
- Q.23 Calculate the cost of construction of G+3 building on the basis of cubical content estimate if the height of each floor is 3.2 m and the plinth area of building is 1200 m<sup>2</sup> and the cost of construction per cubic meter is Rs 3000.
- Q.24 Find out the number of bricks required for a brick masonry wall 15 m long, 3.3 m high and 230 mm thick.
- Q.25 Write down the unit of measurement & unit of payment for the following item of work:  
a) Half Brick wall      b) R.C.C Work
- Q.26 Calculate the dry material required for 50 Sqm of cement sand (1:5) plaster 15 mm thick.
- Q.27 Write short note on center line method for taking out the quantities.
- Q.28 Define Specification. Write specification of RCC work.
- Q.29 Find out the dry material for 1 cum of R.C.C work(1:2:4) having 1.5% steel.
- Q.30 Explain the steps involved in the analysis of rates.
- Q.31 What is contract? Explain its basic elements.
- Q.32 Define Valuation and write its method.
- Q.33 Prepare tender document for RCC work.
- Q.34 Write short note on Scrap Value and Sinking Fund.
- Q.35 Explain the following :  
a) Tender Document      b) Earnest Money

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### 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 the cement concrete in foundation with 40 mm down ballast, cement and sand proportioning (1:2:4) for first 10 cum. Assume local suitable local rate for required material and the manpower.
- Q.37 Define Valuation and various methods involved in valuation along with the purpose of valuation.
- Q.38 Calculate the quantities of the following items of works for 100 m length of the boundary wall of cross section shown in fig.
- Earth work in foundation
  - Second class brickwork in cement mortar 1:6 in foundation & plinth
  - First class Brickwork in cement mortar 1:6 in superstructure
  - 12 mm thick cement Plaster on outer wall surface in cement mortar 1:4



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