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Roll No. ....

120763

6th Sem. / CIVIL/BT/CM/HE

Subject : Quantity Surveying & Valuation

Time : 3 Hrs.

M.M. : 100

### SECTION-A

**Note:** Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1
- What is preliminary estimate?
  - Write the unit of payment and unit of payments for fixing of glass panes.
  - Plinth area.
  - What are general specifications?
  - Define earnest money.
  - Write the unit of measurement & unit of payment for varnishing.
  - What is a pitched roof?
  - What are T&P Charges?
  - Define retention money.
  - What is CSR?

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- Define scrap value.
- What is cost?
- Name any two finishing operations.
- Write the unit of measurement & unit of payment for sand filling.
- Name various types of pointing.
- Write the composition of D.P.C.
- What is a global tender?
- Write the volume of dry materials required for 1.0m<sup>3</sup> cement concrete.

### SECTION-B

**Note:** Short answer type questions. Attempt any ten parts 10x4=40

- Q.2
- List any four duties of a quantity surveyor.
  - Name stages of preparation of detailed estimate.
  - Find out the dry materials required for 100m<sup>2</sup> flush pointing in 1:5 cement sand Mortar.
  - What factors effect analysis of rates?
  - What is maintenance period?

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- vi) What is depreciation? How it is calculated?
- vii) What are the purposes of valuation?
- viii) Write any four items of work? Give their units of measurement.
- ix) Find the dry materials required for  $1\text{m}^3$  Ashlar stone masonry in 1:6 cement sand mortar. <http://www.hsbteonline.com>
- x) What are various types of overhead costs?
- xi) Produce a specimen of comparative statements?
- xii) Differentiate between revised and annual repair estimates.
- xiii) Where and why centre line method of taking out quantities is suitable?
- xiv) Name various tender documents.
- xv) Give the concept of lead and lift.

### SECTION-C

**Note:** Long answer type questions. Attempt any three questions.  $3 \times 10 = 30$

- Q.3 Analyse the rates for  $10\text{m}^3$  brick masonry work in 1:6 cement sand mortar. Assume necessary data.

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- Q.4 Prepare the tender documents for single span RCC Slab culvert.
- Q.5 Describe the qualities of a good contractor. Mention their qualifications.
- Q.6 Write the detailed specifications of
- (i) Conglomerate flooring
  - (ii) 1st class brick work in lime mortar.
- Q.7 A R.C.C. beam  $300\text{mm} \times 600\text{mm}$  is reinforced with 05 numbers of 20mm diameter bars out of which 02 bars are bent up at  $45^\circ$  from the centre of support. Two anchor bars of 12mm dia are provided at top. The shear strips consist of 2 legged 8mm dia at  $150\text{mm}$  c/c. The clear span of beam is 5.0mm and width of support is 300mm. Find out the total quantity of reinforcement. Also prepare bar bending schedule.

Or

Explain different method of taking out quantities in estimate.

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