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**5th Sem. / Civil-Brick Technology**

**Subject : Quantity Surveying**

Time : 3 Hrs.

M.M. : 100

**SECTION-A**

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

- Q.1
- a) Differentiate between load & left.
  - b) Draw Bill of Quantities form.
  - c) Explain Special Repair Estimates.
  - d) What are stipulated items.
  - e) Explain Schedule.
  - f) Explain Prismoidal formula.
  - g) Explain Contractor Profit.
  - h) Differentiate between Rce and Pcc.
  - i) What is the size of a modular Brick.
  - j) What is Batching.
  - k) Explain Contingency charges.
  - l) Differentiate between Flexible and Rigid Pavements.
  - m) List different types of Estimates.

(1)

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Give the units of payments for:-

- n) Woodwork in chowehats.
  - o) Earthwork.
  - p) R.C.C. in slabs.
- On what basis a Rough Cost Estimate is prepared in case of
- q) Cinema Hall.
  - r) Hospital.

**SECTION-B**

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

- Q.2
- i) Find the quantity of material required for 50 Sq.m of Plaster in 1:5.
  - ii) Why are estimates prepared for any project.
  - iii) What are analysis of rates.
  - iv) Explain terms of work.
  - v) Enumerate different items of work you will consider in a Water supply project while preparing estimate.
  - vi) Why the rates of items of works are analysed.
  - vii) What is longitudinal and side slope.

(2)

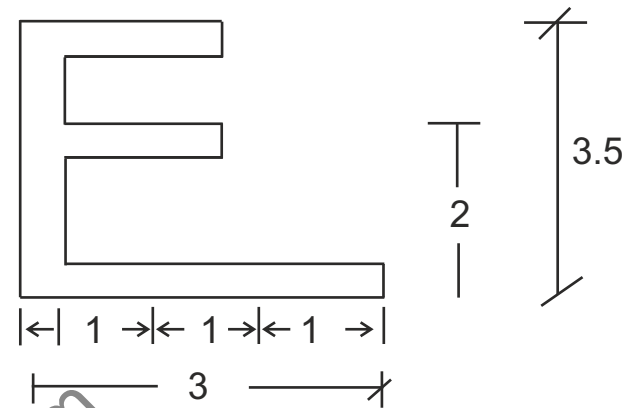
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- viii) How do you calculate Brick work in Super structure.
- ix) Explain briefly different methods of calculating quantities of various items of work in a residential Building.
- x) What are Load bearing and non-load bearing walls?
- xi) On what principles the units of measurements of items is fixed.
- xii) What is plinth height.
- xiii) Why lintels are provided.
- xiv) Find quantity of dry material required for  $100\text{m}^3$  of Ashler stove Masonry.
- xv) What are the duties of a quantity surveyor.

### SECTION-C

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

- Q.3 Prepare a detailed estimate for laying 150 mm dia, 1000 m long water supply line. The joints are to be filled with load. Assume other data required.
- Q.4 Work out the quantities of
1. Earthwork in excavation and
  2. DPC (1:2:4) 25th for the E shaped wall given below.



All wall are 30 cm thick & dimensions are in meters.

- Q.5 Write briefly the method of analysis of Rate of any item.
- Q.6 What are different kinds of section of a canal. Explain with figures.
- Q.7 Prepare an estimate of embankment of a 1200m long road using following data- Formation width-10m, side slope 1:2, Formation level 180m.

RD	NSL
0	180.0
300	177.50
600	175.30
900	174.80
1200	178.80

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(880)

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