B.Tech III Year II Semester (R09) Supplementary Examinations December/January 2014/2015
ESTIMATION, COSTING & VALUATION
(Civil Engineering)

Time: 3 hours

Max Marks: 70

Answer any FIVE questions
All questions carry equal marks
Standard scheduled of rates is permitted in the examination hall
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1   What are the general requirements for installation? Explain the specifications for drainage board and wash basin installations.

2   Work out the quantities for the following items for figure shown below.
        (a) Earth work excavation.
        (b) Cement concrete in foundation.
        (c) Brick work.
   (d) 2.5 cm CC (1:1.5:3) in surface finish.
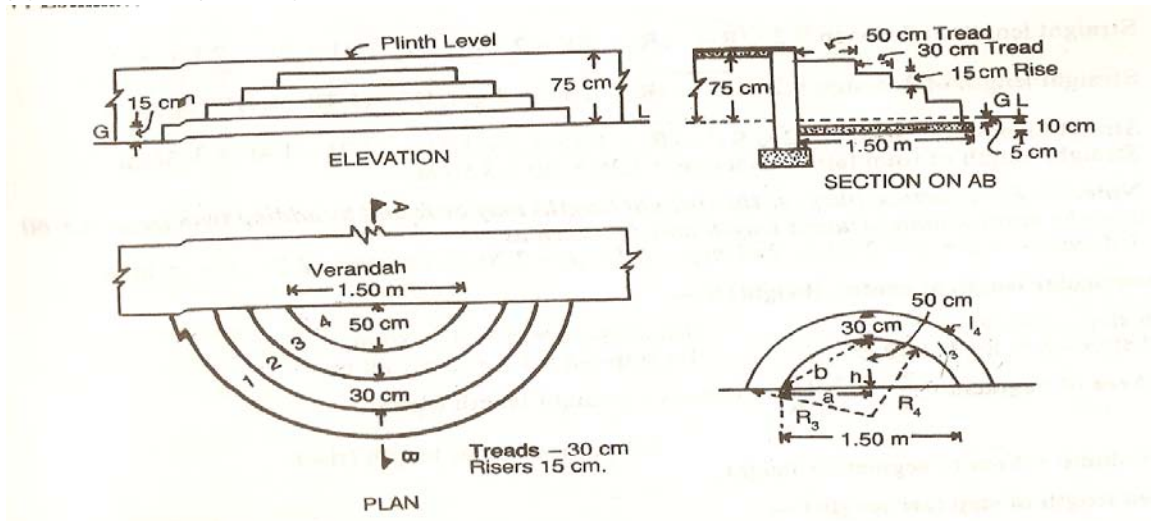
3   Estimate the quantity of earth work for an embankment, 120 m long, 8m wide at crest and whose side slopes is 2 to 1. The central height from 0 to at every 30 m intervals are 0.60 m, 1.2 m, 1.6 m, 2.0 m and 1.3 m. Calculate the earth work using mid section formula and trapezoidal formula.

4   What are the five subheads in rate analysis? Explain them clearly.

5   Workout the quantity of steel in a R.C.C lintel over a door opening from the given drawing. Also prepare the bar bending schedule.
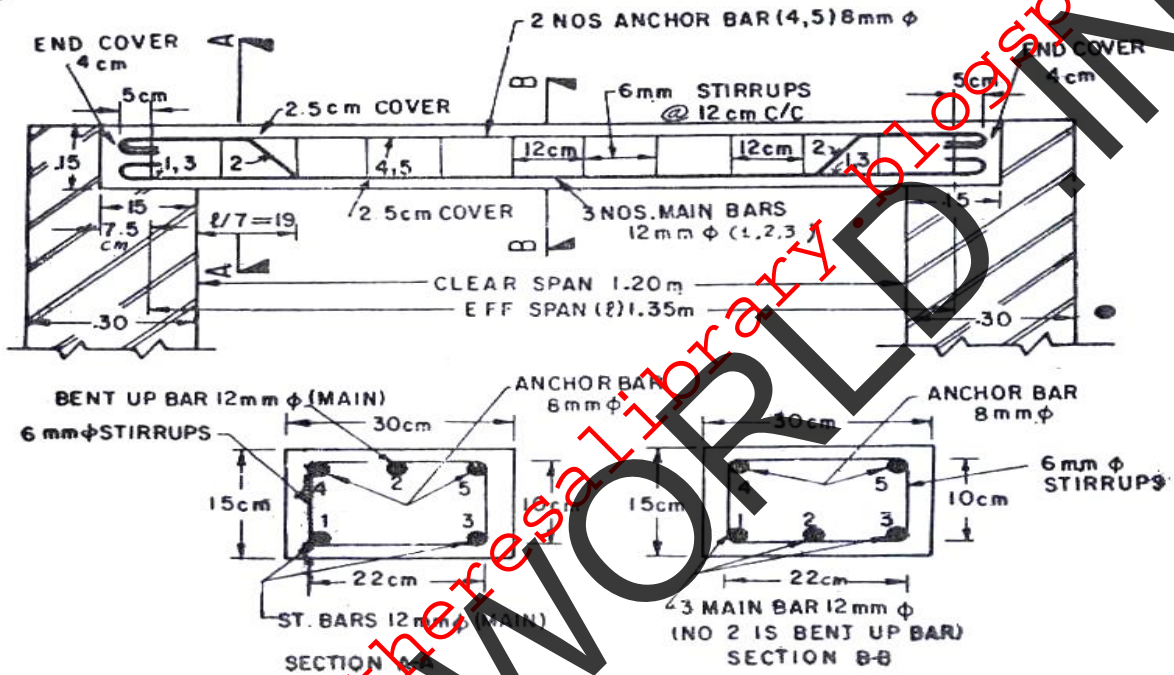
6 (a) Why it is recommended to use standard forms of contract? What are the matters to be defined in the conditions of contract? Elaborate.

   (b) What are the contents of a tender document? Enumerate the complete tendering procedure with illustrations.

7 (a) Differentiate between the following:
      (i) Salvage value and scrap value. (ii) Free hold and lease hold properties.

   (b) A property is let out a monthly rent of Rs. 1,500/-. If the out goings is taken at 30% of gross annual rent, and if the owner of the property expects a return of 12%, what is the capitalized value of the property?

8   Write detailed specifications for stone masonry, doors and windows.

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