B.Tech. Civil (Construction Management)

Term-End Examination

December, 2011

01002

ET-521(D) : QUANTITY SURVEYING & VALUATION

Time : 3 hours *Maximum Marks : 70*

Note : *Attempt any five questions. All questions carry equal marks. Use of scientific calculator is permitted.*

1. (a) Explain in brief, the major sub-heads or 7
        groups into which a detailed estimate of a
        building project is divided.

    (b) What do you understand by Cost Index ? 7
        Explain its significance.

2. (a) A school building is proposed to be 7
        constructed for 600 students. Calculate the
        plinth area. It is given that

    (i) Carpet area per student = 1.6 m^2

    (ii) 20% of the built up area will be
         occupied by the corridórs, verandah,
         lavatories, staricases etc.

    (iii) 15% of the built up area will be
          occupied by walls.

(b) Write the units of measurement of the following items : **7x1=7**

    (i) Honeycomb brick work

    (ii) RCC work in well steining

    (iii) Coping

    (iv) Glazing

    (v) Brick work in Arches

    (vi) Cornice

    (vii) A.C. Sheet roofing

3. (a) Explain the potential role of computers in building estimates.   7

   (b) Discuss the detailed specification for painting.   7

4. Calculate the cost for 1 m^3 of RCC 1 : 2 : 4 (1 cement : 2 coarse sand : 4 stone ballast of 20 mm gauge) work in beams. Assume suitable data needed.   **14**

5. (a) Explain various factors affecting valuation of land.   7

   (b) Briefly discuss the basic principles of Land Acquisition Act, 1984.   7

6. Find the capital value of a premises consisting of **14** a land and a well built house let out for Rs.6000/- per month inclusive of all taxes. Assume the following data :

Out goings : 20% of gross rent

Expected rate of return : 9%

Future life of the building : 65 years

Solve the problem by rental method of valuation.

7. Write short notes on the following :   4x3½=14

    (a)   Revised Estimate

    (b)   Abstracting of quantities

    (c)   Depreciation

    (d)   Years Purchase

8. Differentiate between the following :   4x3½=14

    (a)   Value and cost

    (b)   Plinth and covered Area

    (c)   General specification and Detailed specification

    (d)   High level language and Low level language

———