BTS VIII (S) - 03 - 258 (F)

B.Tech. Degree VIII Semester (Supplementary) Examination in Civil Engineering May 2003

CE 802 QUANTITY SURVEYING AND VALUATION

(1995 & 1998 Admissions)

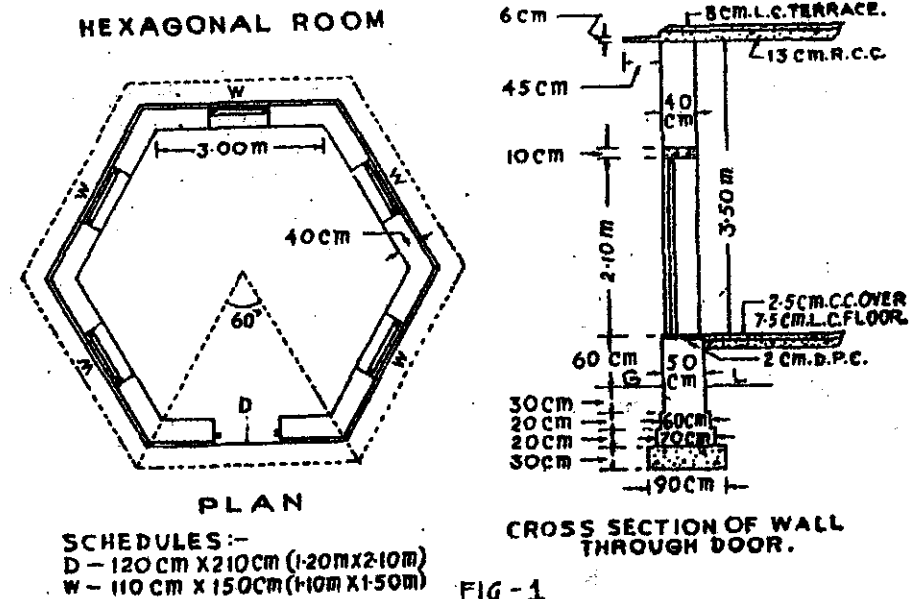Time: 3 Hours   Maximum Marks: 100

(Assume suitable data, if necessary)

I.   The plan and cross section of a hexagonal room are given in figure 1.
Calculate the quantities of -
   (i)   Earth work in excavation
   (ii)   I - class brickwork in super structure
   (iii)   R.C.C. work complete with steel reinforcement
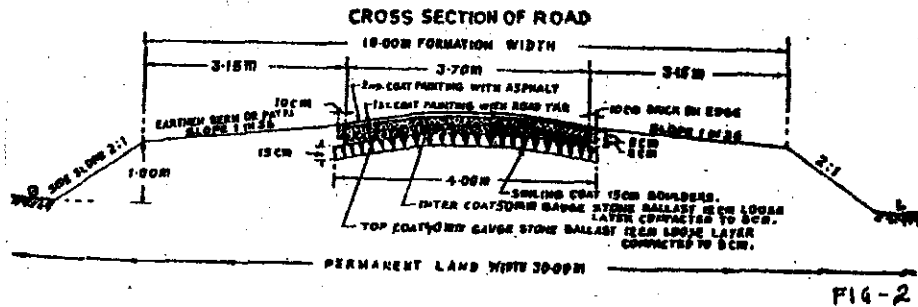   (iv)   12 mm plastering with cement mortar 1 : 6 in walls.
Also calculate the cost for each above items by assuming suitable rate.   (40)

HEXAGONAL ROOM

PLAN

SCHEDULES :–
D – 120 cm X 210 cm (1·20m x 2·10m)
W – 110 cm X 150 cm (1·10m X 1·50m)

CROSS SECTION OF WALL THROUGH DOOR.

FIG - 1

OR

(Turn over)

II.   The cross-section of a State Highway is shown in figure 2.
       Prepare an estimate for the following items.
       (i)   Earth work in embankment
      (ii)   Soling coat
     (iii)   Inter coat
     (iv)   Black top surfacing - 1 coat   (40)

CROSS SECTION OF ROAD

FIG-2

III.   Prepare a report on estimate for the construction of a
       students hostel for your college.   (20)

OR

IV.   Write detailed specifications for
       (i)   Lime concrete in roof terracing
      (ii)   Mosaic flooring
     (iii)   White washing
     (iv)   Random rubble stone masonry.   (20)

V.   Explain the following terms:
       (i)   Scrap value   (ii)   Salvage value
     (iii)   Market value   (iii)   Book value
      (v)   Rateable value   (iv)   Obsolescence
                                            (20)

OR

VI.   (a)   Explain the different methods of valuation.   (12)
     (b)   A property fatches a net annual income of Rs.3000/-
            deducting all outgoings. Work out the capitalized value
            of the property if the rate of interest is 6% per annum.   (8)

VII.   A contractor intends to purchase a land of 100000 sq.m
       area located in a city to develop it into plots of 600sq.m
       each after providing necessary roads and parts and other
       amenities. The current sale price of small plots in the
       neighbouring area is Rs.80 per sq.m. The contractor wants
       a net profit of 25%. Workout the maximum price of the
       land at which the contractor may purchase the land.   (20)

OR

VIII. A building fetches an annual net rent of Rs.25,000, its
       future life is estimated about 15 years only, it is expected
       to last for at least 40 years, provided repair to the floor
       etc........ are carried out immediately, at an estimated cost
       of Rs.1,50,000. Determine whether it is economical to
       renovate the building or leave it, as it is, assuming a rate
       of interest of 5%.   (20)

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