Department of Civil Engineering

NATIONAL INSTITUTE OF TECHNOLOGY SRINAGAR

COURSECODE: CIV505

Subject: Quantity Surveying and Estimation

Examination: Major

Semester: 7th

Time: 3 Hr.

Max marks: 90

ATTEMP ANY FIVE QUESTIONS

Q.1 (a) What is an estimate, costing, specification and valuation of buildings? **(5)**
(b) Explain various types of estimate with examples? **(13)** **(CO1)**

Q.2 Estimate the quantities of the following items of residential building from the given drawing as shown in Fig-2.6 (by using separate long wall and short wall method)?

i.Earth work in excavation in foundation II.lime concrete in foundation III.Ist class brick work in cement motor 1:6 in foundation IV. Ist class brick work in cement in superstructure **(18)** **(CO2)**

Q.3 Perform a detailed estimate of Fig 2.6 by using centreline method? **(18)** **(CO3)**

Q.4 Prepare the analysis of rates of following items take 10 cum for each? **(3*6)** **(CO4)**

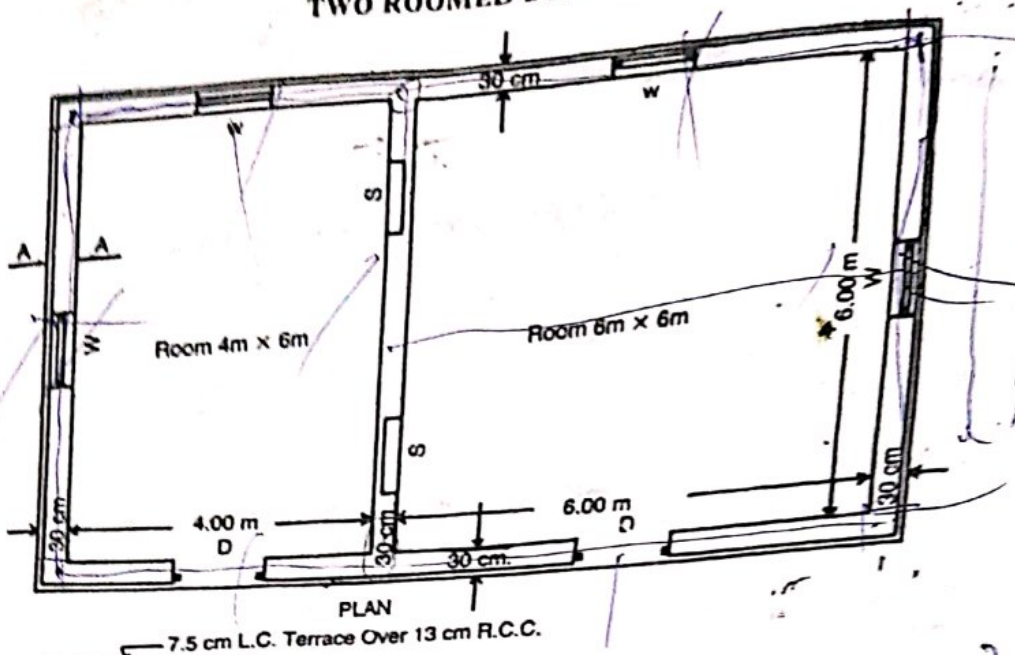
I.Lime concrete in foundation with 40mm gauge brick ballast with 1:2:6 iicement concrete in floor with40mmgauge ballast with 1:2:4iii R.C.C work in column with 1:1.5:3

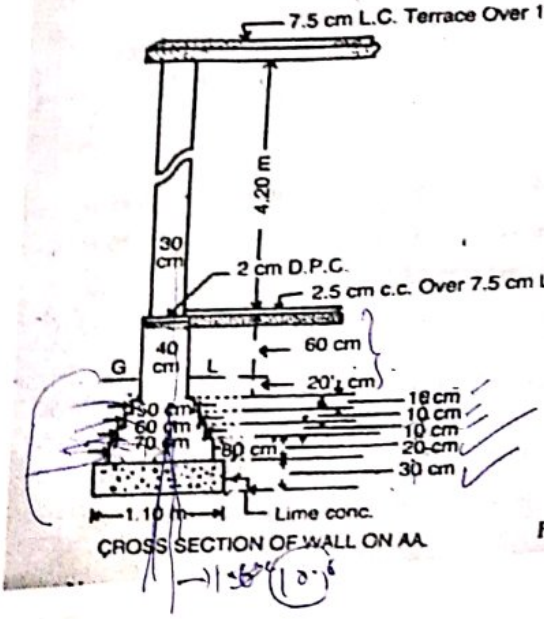
Q.5 The R.L. of ground along the center line of a proposed road from chainage 25 to 35 are given below. The road is in downward gradient of 1in 200. Formation width is 10m and side slope of banking is 2:1 and cutting 1.5:1 length of the chain is 40m, Draw L-section & typical cross-section of road and calculate the earthwork quantity in cutting and filling. R.Lof formation at chainage 25 is 52.00. **(18)** **(CO5)**

station	25	26	27	28	29	30	31	32	33	34	35
R.L	51	50.90	50.50	50.80	50.60	50.70	51.20	51.40	51.30	51.0	50.60

Q.6 (a) perform the rate analysis of 12 mm (1:4) thick plaster work of wall with dimensions of 3*4 m ? **(18)**
(b) Perform the rate analysis of 2.5cm thick concrete floor of specification 1:2:4 with area 100sqm ? **(CO3)**

TWO ROOMED BUILDING





All Walls are of same section
Lintels over Doors, Windows and Shelves are 15 cm thick R.B.

Doors D-1.20 m × 2.10 m
Windows W-1.00 × 1.50 m
Shelves S-1.00 m × 1.50 m

Fig. 2-6