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NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR
B..TECH. (4th YEAR, VIII SEM.), Session: 2022-2023 (Even Semester)
End Sem Theory Examination May 2023

CE- 422 Quantity Surveying

Course Coordinator- Dr. Manendra Singh

Time: 3 hours

Marks: 50

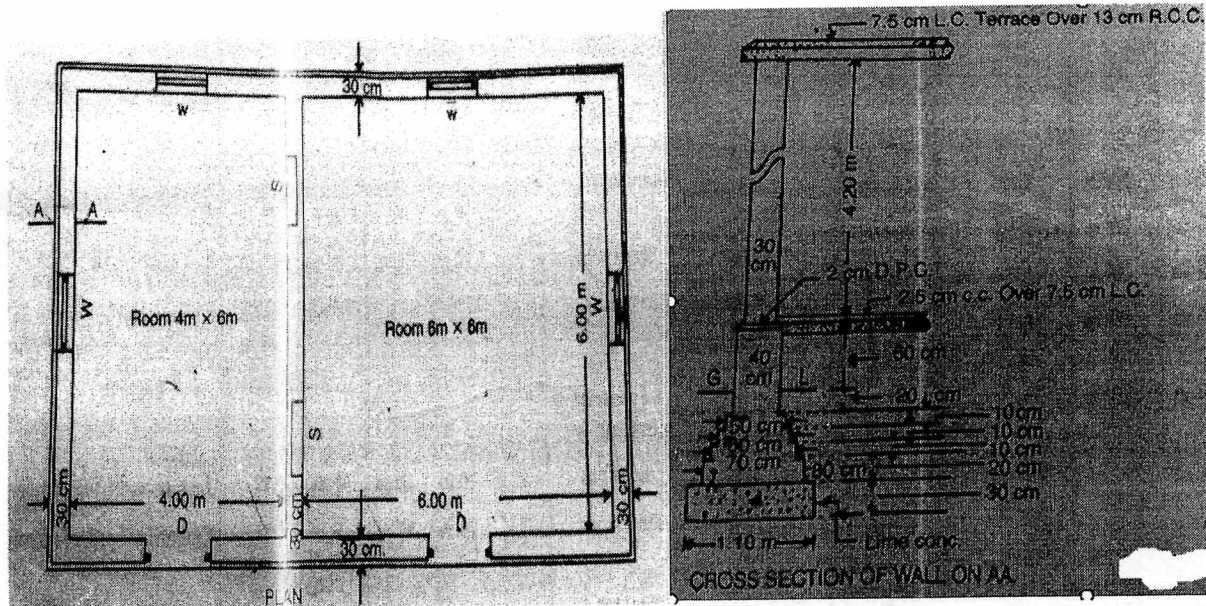
Note: Assume missing data if any.

Q. 1 Estimate the quantities by PWD Method and Centre Line Method of the following items of a two roomed building from the given plan and section:

- Earthwork in excavation in foundation,
- Lime concrete in foundation,
- 1st class brick work in cement mortar 1:6 in foundation and plinth
- 2.5 cm c.c damp proof course
- 1st class brick work in lime mortar in superstructure.

All walls of same section Lintels over doors. Window and Shelves are 15cm thick R.B., Door D- 1.2m x 2.1m, Windows W- 1m x 1.5m, Shelves S- 1m x 1.5 m.

15 marks



Q. 2 Calculate the quantity of materials for first class brickwork of 50cm in super structure with cement mortar (1:6). Also give the rate analysis. Assume local rate of your city. Show the values in tabular form.

5 marks

Q. 3 a) Write the general specifications of fourth class buildings.

b) Explain the Earnest Money Deposit, Security Deposit, Retention Money Muster roll and Regular establishment.

5+5=10 marks

(77)

Q.4 Explain the following:

- a) Salvage Value, b) Year's Purchase (Y.P), c) Sinking Fund, d) Mortgage, e) Free Hold Property

or

Work out the value of a premises to let for Rs. 900/- P.M. inclusive of all taxes. The building is in such a condition that the effective life cannot be more than 20 years and after this period, the building will have to be rebuilt at an estimate cost of Rs. 100000/-. The rent being paid is fair and likely to be maintained provided yearly repairs are regularly carried out. Assume cost of annual repair 7% of the gross rent. Years purchase for 20 years @ 7% allowing for the redemption of estimated cost to rebuilt, the building @4%. Other outgoing are 18% of gross rent. Consider one year rent shall be lost due to rebuilding.

10 marks

Q. 5 Prepare a detailed estimate of a R.C.C column with foundation from the given drawing:

10 marks

