

R09

Code: 9A01605

B.Tech III Year II Semester (R09) Supplementary Examinations December/January 2015/2016

ESTIMATION, COSTING & VALUATION

(Civil Engineering)

Time: 3 hours

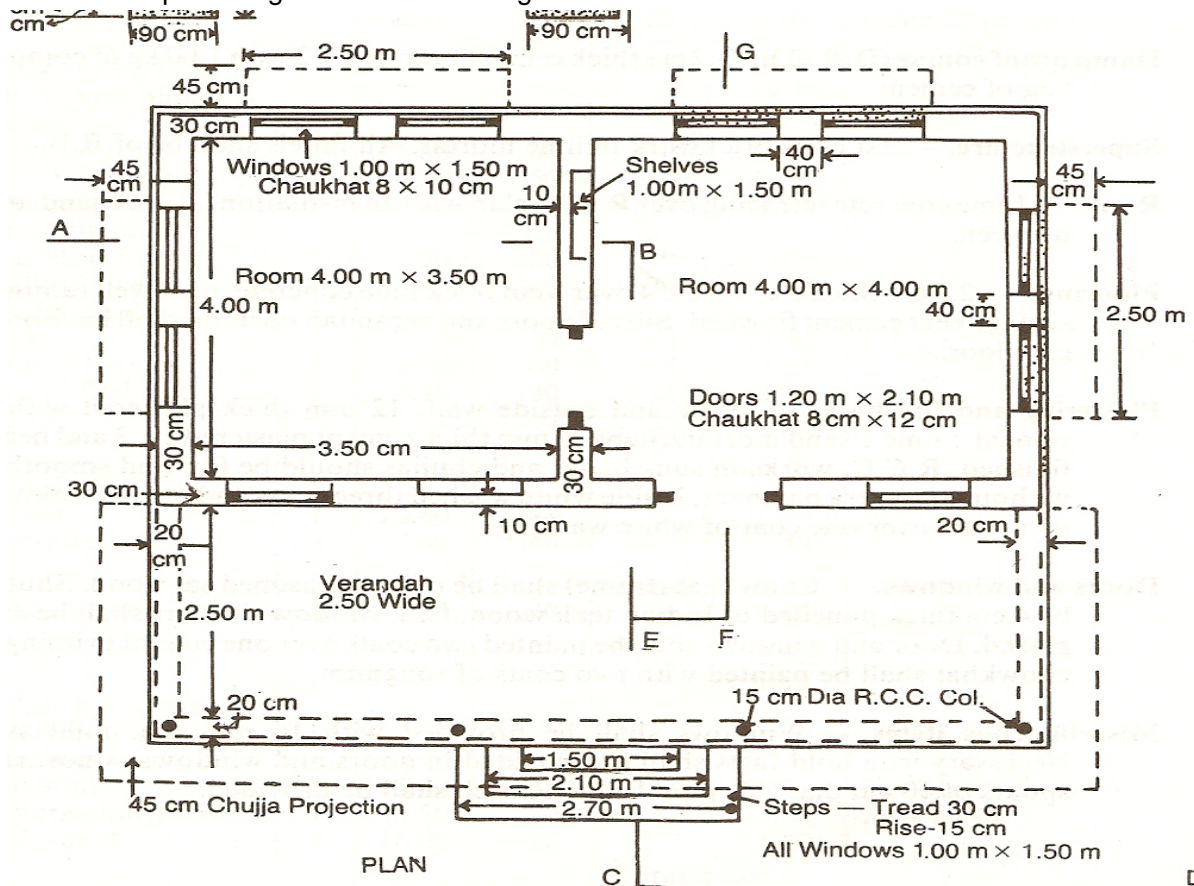
Max Marks: 70

Answer any FIVE questions

All questions carry equal marks

Standard scheduled of rates is permitted in the examination hall

- 1 What are the specifications for laying and joining of pipes and fittings
- 2 Estimate the following quantities for the figure given below for following data:
 - (a) 12 mm thick plastering inside the building.
 - (b) 20 mm thick plastering outside the building.



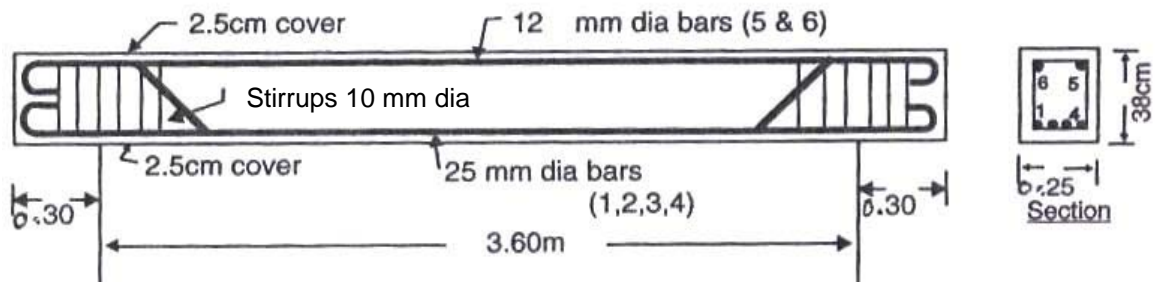
- 3 (a) Explain the terms lead and lift.
- (b) List out the general methods for computation of earth work. Explain.

Contd. in page 2

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- 4 (a) List out the purposes and requirements of Rate Analysis.
(b) What are the factors affecting Rate Analysis?
- 5 Workout the quantity of reinforcement by preparing bar requirement schedule of a beam as per the drawing given below.



- 6 (a) Write short notes on: (i) Price escalation clause. (ii) Liquidated damages and penalty.
(b) What is a bid? How is it submitted? What are the various stages and types?
- 7 A building constructed on a site measuring 20 m x 30 m is fetching a gross rent of Rs. 2,500/- per month. The plinth area of the building is 140 Sq.m. and the cost of construction is Rs. 2,000/-per Sq.m. of plinth area. The estimate life of the building is 70 years. Determine the present value of the property based on rental income assuming a net yield of 9% for sinking fund accumulation, a compound interest of 5% may be assumed. Taxes, annual repairs and all other outgoings may be taken as 32% of the gross income, and the cost of land as Rs. 80/- per Sq.m.
- 8 (a) Write about purpose of specifications.
(b) Write detailed specifications for centering & shuttering and R.C.C.
