

B.E./B.TECH. Degree Examination, December 2020
Seventh Semester
CE16703 - Estimation, Costing and Valuation Engineering
(Regulation 2016)

Time: Three hours

Maximum : 80 Marks

Answer ALL questions

PART A - (8 X 2 = 16 marks)

1. The rate of an item of work depends on
 - (a) Specifications of works
 - (b) Specifications of materials
 - (c) Proportion of mortar
 - (d) All the above
2. Brick walls are measured in sq. m if the thickness of the wall is
 - (a) 10 cm
 - (b) 15 cm
 - (c) 20 cm
 - (d) 30 cm
3. The damp proof course (D.P.C.) is measured in
 - (a) Cu. m
 - (b) Sq. m
 - (c) Metre
 - (d) None of these
4. The main factor to be considered while preparing a detailed estimate, is
 - (a) Quantity of the materials
 - (b) Availability of materials
 - (c) Location of site and local labour charges
 - (d) All the above
5. What is Capitalized value and how do you calculate the capitalized value for the commercial building?
6. Define tender and give its significance in the construction industry.
7. Differentiate between the Scrap Value and Salvage Value.
8. Define is Obsolescence and when do you term the building as Obsolete?

PART B - (4 X16 = 64 marks)

09. (a) Estimate in detail the quantities of the following items of work in a residential building (16) show in Fig 1.
- | | |
|-----------------------------|---|
| i) Excavation in foundation | ii) Brick work in foundation and Plinth |
| iii) DPC | iv) RCC in Roof slab |

Also calculate the number of bricks required for foundation and plinth.

(OR)

- (b) Estimate in detail the quantities of the following items of work in a residential building (16)
show in Fig 1.

- i) Brick work in superstructure ii) PCC for the foundation
iii) Plastering in superstructure iv) 2.5 cm CC Flooring

Also calculate the number of bricks required for superstructure.

10. (a) (i) Using current schedule of rates for materials and labour prepare the data for the (8)
following items of work: Half brick wall with CM 1:4 for 1 m³
(ii) Using current schedule of rates for materials and labour prepare the data for the (8)
following items of work: Plain cement concrete 1:5:10 for 1 m³

(OR)

- (b) Explain different types of contract system, discuss the model adopted by the NHAI for (16)
the construction of Highways and operation of toll plaza.

11. (a) Mention various methods of valuation and explain how do you value different types of (16)
properties with an example.

(OR)

- (b) Explain in detail the steps involved in calculation of standard rent for buildings (16)

12. (a) Prepare a detailed report on estimate for Construction of a village road with culvert. (16)

(OR)

- (b) Prepare a detailed report on estimate for Construction of a open well with overhead tank (16)
and water supply system .

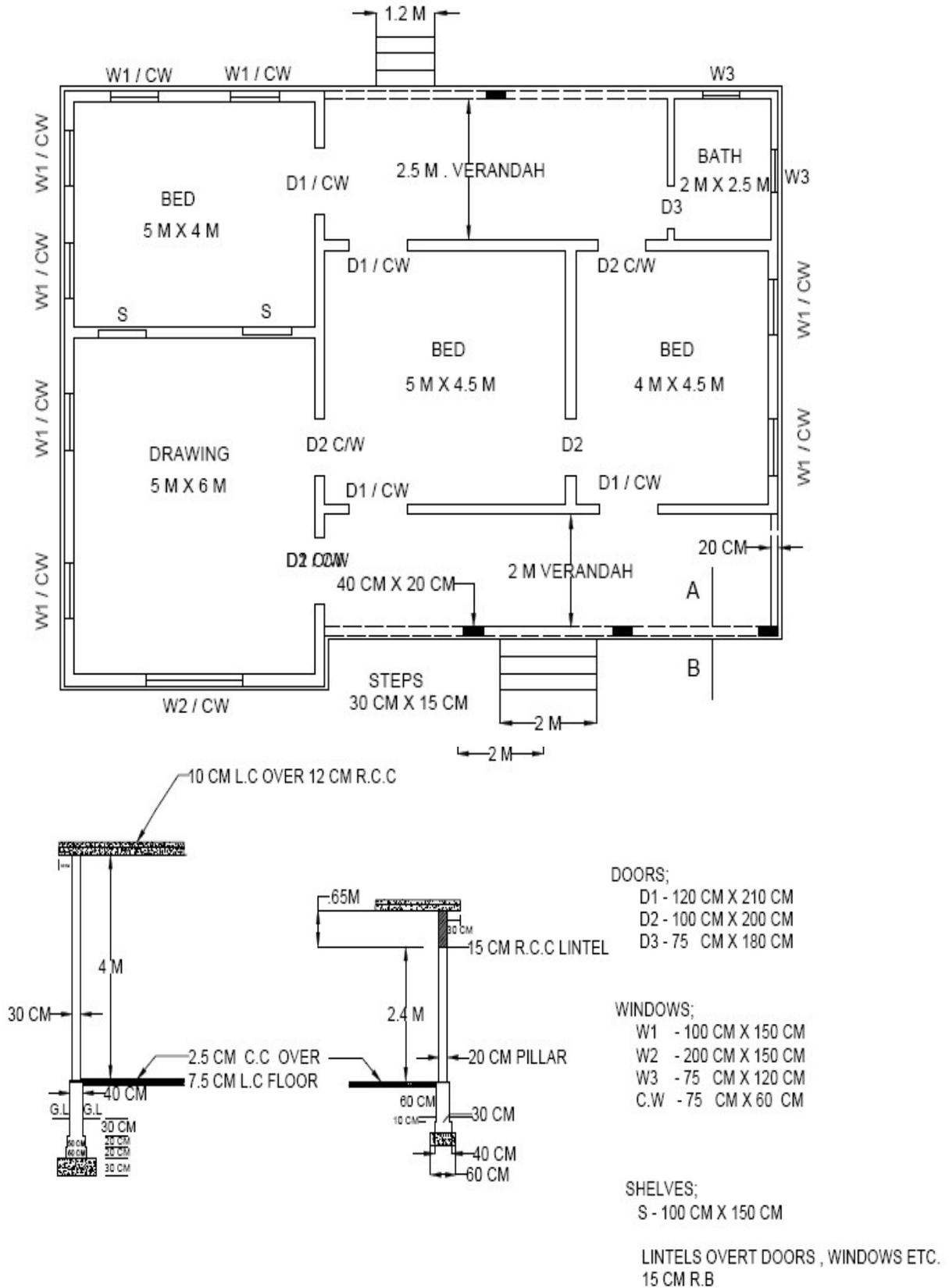


Fig 1.