



SIDDHARTH GROUP OF INSTITUTIONS :: PUTTUR
Siddharth Nagar, Narayanavanam Road – 517583

QUESTION BANK (DESCRIPTIVE)

Subject with Code : ECV(13A01605)

Course & Branch: B.Tech - CE

Year & Sem: IV-B.Tech & II-Sem

Regulation: R13

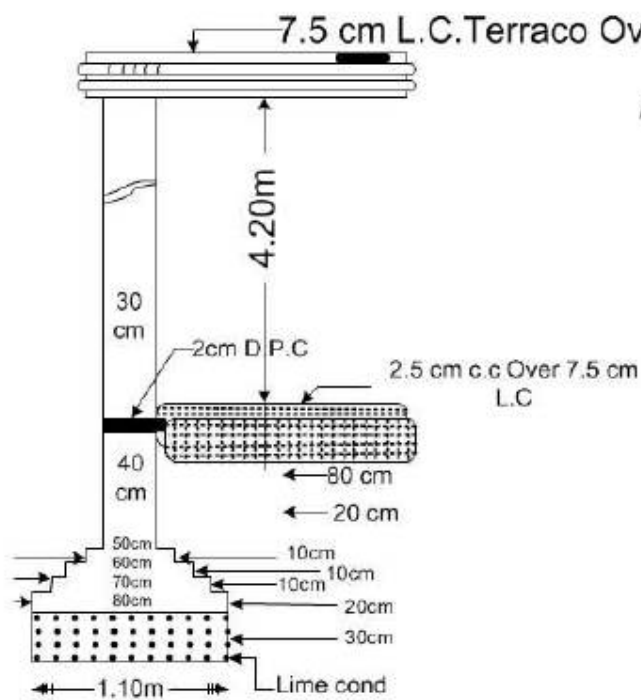
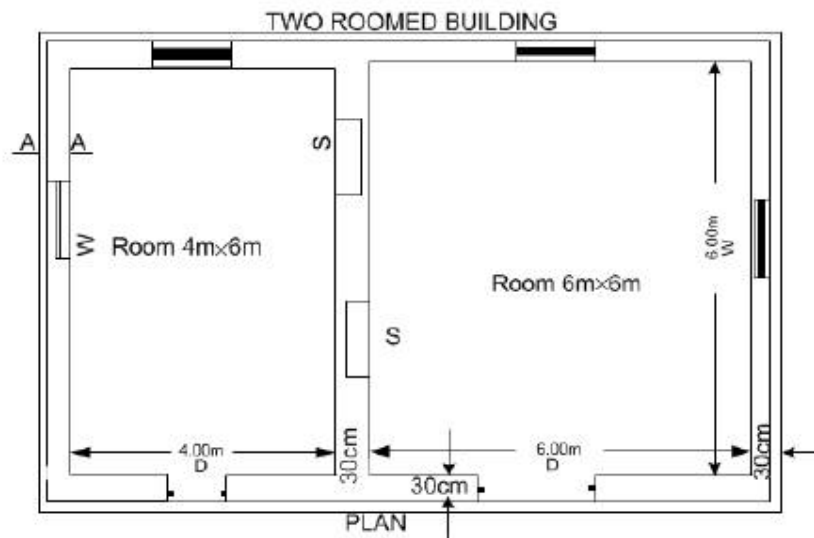
UNIT –II

Estimation of Buildings

1. (a) Explain long wall and short wall method.
(b) Explain Centre line method in detail.
2. Calculate the quantities of the following items for the building shown in fig (1) using Longwall and short wall method
 - (a) Earth work in excavation
 - (b) Brick work in foundation and plinth
 - (c) PCC (1: 5: 10) below the foundation
 - (d) Damp Proof Course
 - (e) Brick masonry in CM (1:6) for super structure.
3. Calculate the quantities of the following items for the building shown in fig (1) using Centre line method
 - (a) Earth work in excavation
 - (b) Brick work in foundation and plinth
 - (c) PCC (1: 5: 10) below the foundation
 - (d) Damp Proof Course
 - (e) Brick masonry in CM (1:6) for super structure.
4. Calculate the quantities of the following items for the building shown in fig (2) using Centre line method
 - (a) Earth work in excavation
 - (b) Brick work in foundation and plinth
 - (c) PCC (1: 5: 10) below the foundation
 - (d) Damp Proof Course
 - (e) Brick masonry in CM (1:6) for super structure.
5. Calculate the quantities of the following items for the building shown in fig (3) using

- Longwall and short wall method
- (a) Earth work in excavation
 - (b) Brick work in foundation and plinth
 - (c) PCC (1: 5: 10) below the foundation
 - (d) Damp Proof Course
 - (e) Brick masonry in CM (1:6) for super structure.
6. Calculate the quantities of the following items for the building shown in fig (3) using Centre line method
- (a) Earth work in excavation
 - (b) Brick work in foundation and plinth
 - (c) PCC (1: 5: 10) below the foundation
 - (d) Damp Proof Course
 - (e) Brick masonry in CM (1:6) for super structure.
7. Calculate the quantities of the following items for the building shown in fig (4) using Longwall and short wall method
- (a) Earth work in excavation
 - (b) Brick work in foundation and plinth
 - (c) PCC (1: 5: 10) below the foundation
 - (d) Damp Proof Course
 - (e) Brick masonry in CM (1:6) for super structure.
8. Calculate the quantities of the following items for the building shown in fig (4) using Centre line method
- (a) Earth work in excavation
 - (b) Brick work in foundation and plinth
 - (c) PCC (1: 5: 10) below the foundation
 - (d) Damp Proof Course
 - (e) Brick masonry in CM (1:6) for super structure.
9. Calculate the quantities of the following items for the building shown in fig (5) using Longwall and short wall method
- (a) Earth work in excavation
 - (b) Brick work in foundation and plinth
 - (c) PCC (1: 5: 10) below the foundation
 - (d) Damp Proof Course
 - (e) Brick masonry in CM (1:6) for super structure.

Fig(1)



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

Doore D. 1.20 m x 2.10m
 Windows W- 1.00 x 1.50m
 Shelves S- 1.00m x 1.50m

Fig (2)

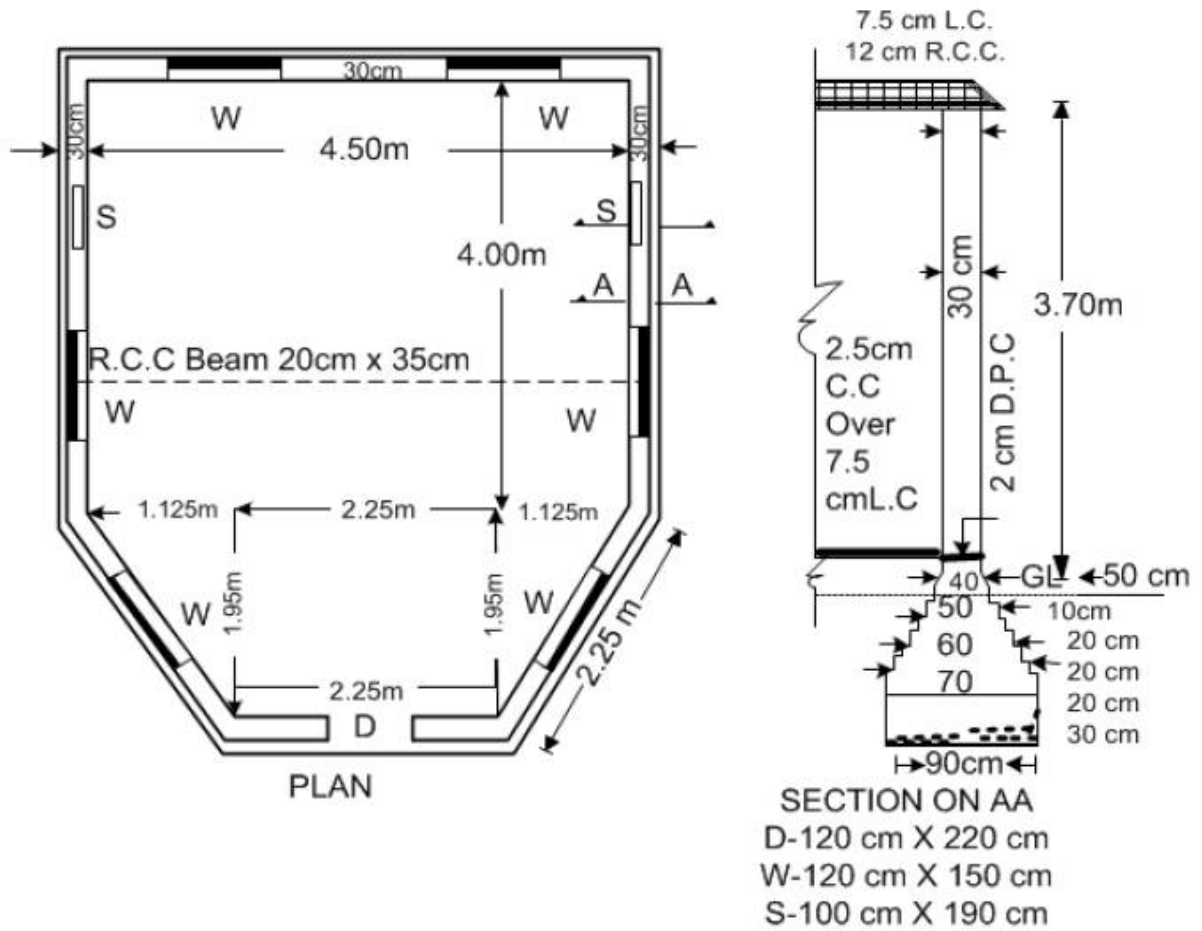


Fig (3)

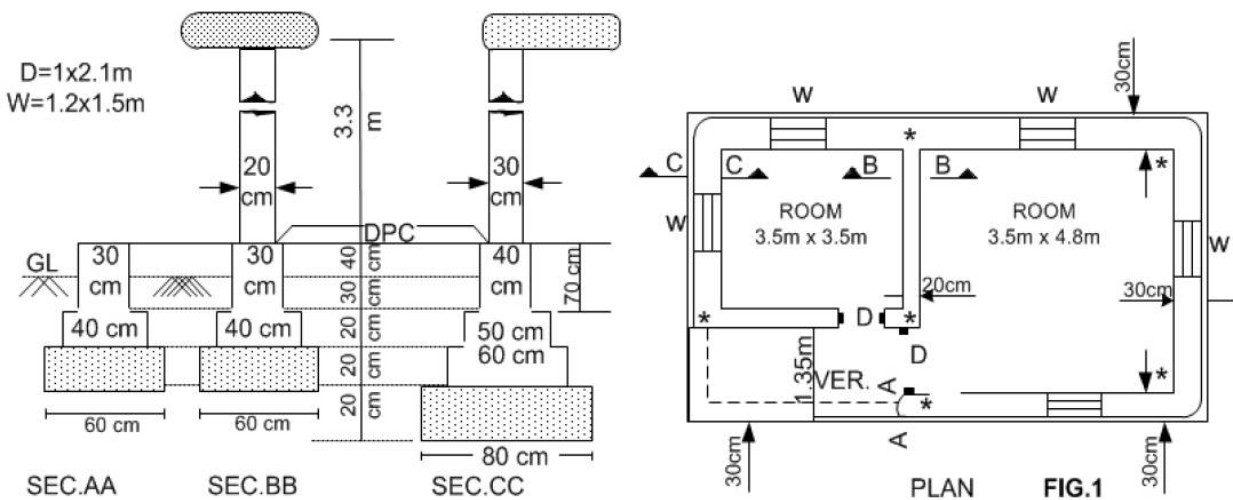


Fig (4)

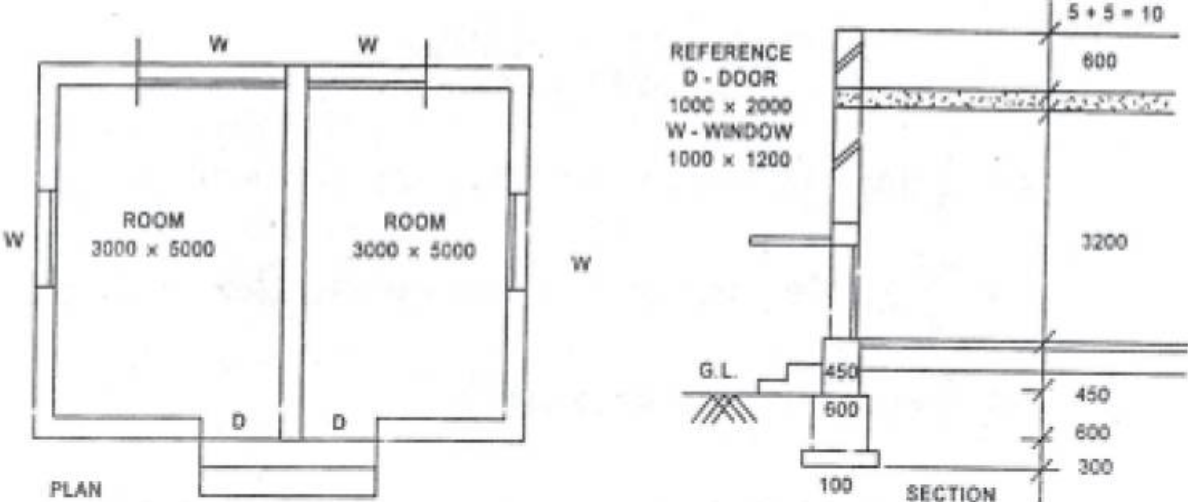
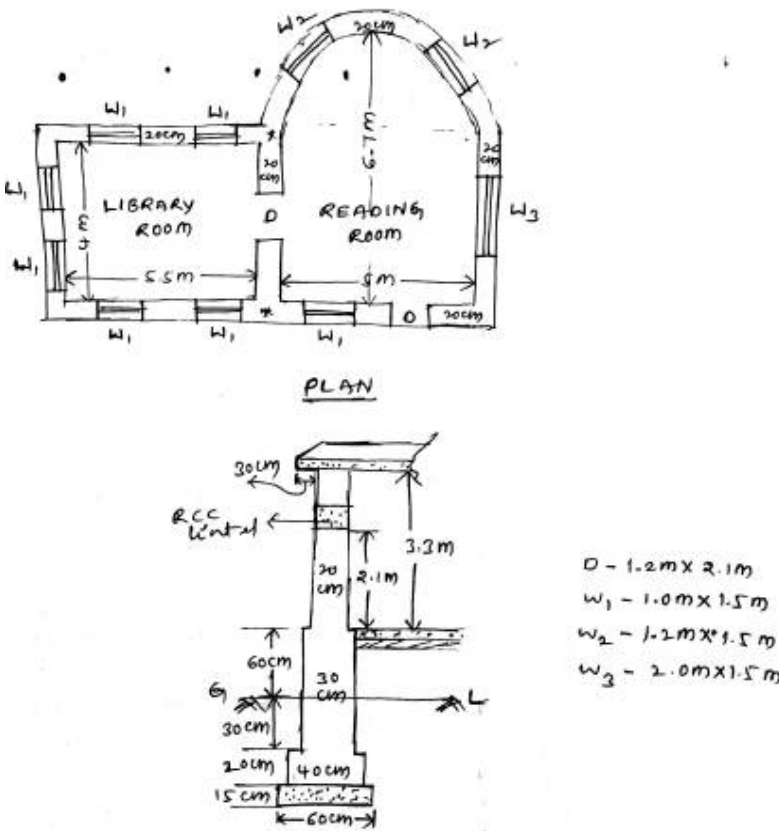


Fig (5)



10. Calculate the quantities of the following items for the building shown in fig (5) using

Centre line method

- (a) Earth work in excavation
- (b) Brick work in foundation and plinth
- (c) PCC (1: 5: 10) below the foundation
- (d) Damp Proof Course
- (e) Brick masonry in CM (1:6) for super structure.

Prepared by: **R RAJESH KUMAR**