

- i) Eccentricity ratio
- ii) Slenderness ratio

Contd...2

## P15CV662

## Page No... 2

8. Design an axially loaded unstiffened, solid interior cross wall of a two storyed building to carry 100 mm thick RCC slabs with 3 m ceiling height. The wall supports a 2.65 m wide slab. Live load on roof =  $1.5 \text{ kN/m}^2$ , live load on floor =  $2 \text{ kN/m}^2$ , weight of 80 mm thick terrace =  $1.96 \text{ kN/m}^2$  and weight of floor finish =  $0.2 \text{ kN/m}^2$ .

## UNIT - V

- 9 a. With neat sketches, explain modes of failure of an in filled frame. 10
- b. Write a short note on reinforced masonry construction. What are its advantages? 10
- 10. Design an exterior wall of a single story warehouse of 3.5 m height. The loading on the wall consists of vertical load of 25 kN/m from the roof and wind pressure of 860 N/m<sup>2</sup>. The wall 20 is tied with metal anchor at the floor and roof levels.