

- b) A R.C.C dome of radius 4m and semicentral angle of 40° has thickness of 100mm. it is also subjected to a live load of 75kN/m^2 . Find membrane stresses in shell. If the ring beam is provided at the support, what will be the forces on ring beam. 15 L₃ CO5

Q.6

Solve any Two

- a) A cylindrical shell of circular directrix has a radius of 4m and a semicircle angle of 40° . The thickness of shell is 100mm and span of 12m. Using beam method of analysis, find stresses developed due to D.L. and L.L. of 75kN/m^2 . Density of concrete is 25kN/m^3 . 15 L₃ CO6
- b) Explain beam theory of cylindrical shell. 15 L₃ CO6
- c) Explain Concrete Shells for Floors, Waffle-Slab and Shells floor. 15 L₂ CO6

ESE

Page 2/2

96