

Chapter 7

- Q1. What is push over analysis? Write down the steps involved in push over analysis.
- Q2. For the following of a two bay, two storied frame, perform pushover analysis and draw pushover curve, capacity curve and demand curve using SAP 2000.
- i) RCC frame with two bay and two storied
 - ii) Floor to floor height is 3.6m and bay width is 4m
 - iii) Reinforcement – Fe 415 & Concrete – M20
 - iv) Column Size – 400mm X 250mm
 - v) Beam Size – 350mm X 250mm
 - vi) Response Spectra- IS:1893 (Part 1)-2002
 - vii) Soil strata- Hard Rock
 - viii) Zone – V
 - ix) Importance Factor- 1
 - x) Lumped Mass – 1500kg at each floor
 - xi) Modal Combination – Square root of sum of squares (SRSS)
 - xii) Directional Combination - Square root of sum of squares (SRSS)
 - xiii) Load Combination- 1.5 (DL+EL) as per IS: 1893-2002

