

Roll No

MVCT/MVCP-301(B)

M.E./M.Tech., III Semester

Examination, December 2016

Multi Storey Buildings (Elective-I)

Time : Three Hours

Maximum Marks : 70

- Note :** i) Attempt any five questions.
ii) All questions carry equal marks.

1. Describe the basic concept of matrix method. Explain matrix methods for analysis of building frames.
2. What do you understand by shear wall structures? What are the various types of shear walls? Discuss behaviour of shear wall building.
3. Discuss step by step the yield line analysis of reinforced concrete slabs applying concept of moment redistribution.
4. Discuss the effects of earthquake on multi-storeyed buildings. What are the codal provisions for earthquake resistant design of multi-storeyed buildings for ductile detailing?
5. Write a detailed note on the following
 - a) Analysis of loads by approximate method
 - b) Structural design criteria in planning
6. Discuss in detail structural systems and their suitability.

7. How the design of sections differ in reinforce concrete working stress method with that of limit state method.
8. Write short notes on any Two of the following
 - a) Computer programming for the analysis of building frames.
 - b) Detailing of joints in shear walled buildings.
 - c) Foundation - super structure interaction.
