Total No. of Questions : 8] *[Total No. of Printed Pages :2*

Roll No .....

MVCT-301(B)

M.E./M.Tech. III Semester

Examination, December 2014

Multi Storey Buildings (Elective-I)

Time : Three Hours

Maximum Marks : 70

Note : i) Attempt any five questions.
ii) All questions carry equal marks.
iii) Assume suitable data, if found missing.

1. What do you mean by structural systems? Discuss their types and suitability in multi-storeyed buildings.

2. Describe basic concept of Matrix Method. Explain Matrix methods for analysis of building frames.

3. a) What are the different static and dynamic loads acting on Multi-storeyed buildings?
   b) Write down the procedure for determining the earthquake forces to different floor levels of the multi-storeyed building.

4. What do you understand by shear wall structures? What are the various types of shear walls? Discuss behaviour of shear wall buildings.

5. Write a detailed note on yield line analysis of RCC slab.

6. Discuss the effects of earthquake on multi-storeyed buildings? What are the codal provisions for earthquake resistant design of multi-storeyed buildings?

7. Write a detailed note on the following:
   i) Analysis of loads by approximate method
   ii) Structural design criteria in planning

8. Write notes on the following (any four):
   i) Foundation super structure interaction
   ii) Detailing of joints
   iii) Concept of moment redistribution in RCC slab
   iv) Computer programming for analysis of building frames
   v) Design for ductility

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