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Roll No

MVSE-302(B)
M.E./M.Tech., III Semester
Examination, November 2018
Design of Tall Structures
(Elective-II)
Time : Three Hours

Maximum Marks : 70

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

1. a) Discuss the classification of tall buildings and assumptions involved in its analysis.
b) What are the different static and dynamic loads acting on tall structures? Explain.
2. a) Discuss in detail the Von karman vortex in tall structures:
b) Write down the uncertainties in earthquake design.
3. a) What is Shear wall? Discuss the classification of shear wall.
b) Discuss the ductility and reinforcement details in the shear walls.
4. a) What are the codal provisions for EQ resistant design of chimneys?
b) Discuss the design criteria for T.V. towers.

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5. a) What is hydro dynamic analysis of elevated water and codal provisions for this?
b) Discuss in detail the continuous method of analysis shear wall with openings?
6. a) What are reduction techniques in modeling of structures?
b) What is Tabular structure and how this behaves under lateral load?
7. A chimney of height 90m is proposed to be building on hill top at Himachal Pradesh. The height of the hill is 8m and it has a gradient of 1:5. The horizontal approach is 2m from G.L. Calculate the design wind pressure.
8. Write a short notes on the following:
 - a) Gust factor
 - b) Khan and Sbarro unit method
 - c) Design of flanged shear wall

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