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

Roll No .....

MVSE - 302(B)

M.E./M.Tech. III Semester

Examination, June 2016

Design of Tall Structures (Elective-II)

Time : Three Hours

Maximum Marks : 70

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

1. a) Explain the classification of tall buildings and assumptions involved in its analysis.
   b) Explain the modelling for approximate and accurate analysis of a tall structure.

2. Discuss the behaviour of tall structures under static and dynamic loads.

3. a) Discuss vortex shedding phenomenon and gust response factor.
   b) Discuss the uncertainties in earthquake design.

4. a) What is shear wall? Discuss the classifications of shear wall.
   b) Explain the ductility and reinforcement details in the shear walls.

http://www.rgpvonline.com

5. Discuss in detail criteria for design of T.V. Towers.

6. a) What are the codal provisions for EQ resistant design of chimneys?
   b) What is hydrodynamic analysis of elevated water tank and codal provisions for this?

7. a) What are reduction techniques in modelling of tall structures? http://www.rgpvonline.com
   b) What is tabular structure and how this behaves under lateral load?

8. Write short notes on any two of the following :
   a) Regorlens method of analysis
   b) Design of flanged shear wall
   c) Design of chimney

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