

**NPTEL course offered by IIT Madras  
Computer methods of analysis of offshore structures**

**Tutorial 7: Introduction to offshore structures**

**Answer all questions**

**Total marks: 25**

1. Explain how structural form of offshore structures are different from that of conventional structural system
2. List the governing factors that control analysis and design of offshore structures
3. List few essential features of production platforms constructed in Gulf of Mexico (GoM)
4. Write short notes on fixed type offshore platforms
5. Write a brief note on Jack-up rigs
6. Explain the design concept of compliant-type offshore platforms
7. What do you understand by compliancy? In such platforms, what is the basic source of strength?
8. Write a brief note on Articulated towers (AT)
9. What is the uniqueness in design of Tension Leg Platforms (TLPs)?
10. Write a brief note on New-generation offshore platforms