

**NPTEL course offered by IIT Madras**  
**Risk and Reliability of Offshore structures**  
**Tutorial 2: Rules of Probability**

**Answer all questions**

**Total marks: 25**

- 1. Explain principles of plausible reasoning and their use in Reliability analysis**
- 2. Explain deductive logic, with an example**
- 3. Explain how deductive reasoning is important to quantify deductive logics?**
- 4. State and explain Product rule of plausible reasoning**
- 5. State and explain Sum Rule of plausible reasoning**