

**Quiz 8**  
**Operating Systems and Networks**  
**IIT Hyderabad**  
**Time: 30 minutes; Max. Marks: 24**

Note: Give a brief and correct answer. **Mention your name and roll number on the answer sheet. Answer the question after writing the FIRST 10 WORDS OF THE QUESTION ALONG WITH THE QUESTION NUMBER in the answer sheet.**

1. What is the difference between distributed system and computer network?[2]
2. What is the purpose of communication satellites? [2]
3. How Fourier analysis will help to reduce the bandwidth? [5]
4. What is the purpose of multiplexing? What will happen if you do not use multiplexing?[5]
5. Explain how the notion of piggybacking is employed by datalink layer? What is the issue with piggybacking?[5]
6. Why Nonpersistent CSMA Protocol gives better performance over 1-Persistent CSMA Protocol? Discuss.[5]