

**Quiz 8**  
**Operating Systems and Networks**  
**IIIT 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. In operating systems, we have developed a producer and consumer paradigm to communicate between CPU and peripherals. How the communication between two computers over networks is different or similar as compared to producer and consumer paradigm? [4]
2. Suppose there is a change in the service provided at layer k. How does this impact services at layers “k-1” and “k+1”? [5]
3. What will happen if we send the digital bits without modulation? Explain the purpose modulation in data transmission. [5]
4. Explain the tradeoffs between “Go-Back-N” Sliding Window Protocol and “Selective Repeat” Sliding Window Protocol. [5]
5. Why Nonpersistent CSMA Protocol gives better performance over 1-Persistent CSMA Protocol? Discuss.[5]