

**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 QUESTON NUMBER in the answer sheet.**

1. What will happen if we send the digital bits without modulation? Explain the purpose modulation in data transmission. [5]
2. Explain the tradeoffs between “Go-Back-N” Sliding Window Protocol and “Selective Repeat” Sliding Window Protocol. [5]
3. Why Nonpersistent CSMA Protocol gives better performance over 1-Persistent CSMA Protocol? Discuss.[5]
4. Suppose there is a change in the algorithm for a protocol layer “k”. How does this impact services at layers “k-1” and “k+1”? [4]
5. Why transport layer is called end-to-end layer? [5]