

**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. Why Nonpersistent CSMA Protocol gives better performance over 1-Persistent CSMA Protocol? Discuss.[5]
2. 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]
3. Why transport layer is called end-to-end layer? [5]
4. What are the objectives of computer networking? How they differ from the objectives of Operating System? [5]
5. Explain the difference between connectionless and connection-oriented service? Give two examples for each one.[5]