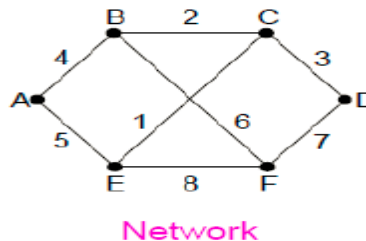**Quiz 9**
Operating Systems and Networks
IIIT Hyderabad
Time: 30 minutes; Max. Marks: 24

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 QUESTON NUMBER in the answer sheet.**

1. Explain why FIFO packet scheduling algorithm fails to provide good service for diverse applications? [4]

2. Explain the purpose of leaky bucket algorithm? What will happen, if you do not implement leaky bucket algorithm? [4]

3. Explain the issues of round-robin fair queuing packet scheduling algorithm. Discuss how a byte-by-byte round-robin improves the performance over fair queuing packet scheduling algorithm. [8]

4. Consider the following network. Distance vector routing is used and the following vectors have just come in to router C; from B: (5,0,8,1,6,2); from D: (16,12,6,0,9,10); from E (7,6,3,9,0,4). The cost of the links from C to B, D, and E, are 6, 3 and 5 respectively. What is C's new routing table? [8]

Network

5.