

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. “The 3G technology has evolved due to scarcity of spectrum”. Justify.[5]
2. What is the tradeoff between “Bitmap Collision Free” protocol and “CSMA-Collision Detection” protocol.[5]
3. What is the tradeoff between “error detection” and “error correction” methods? [5]
4. 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]
5. 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]