Unit 1:
1. Which transmission mode is commonly used for serial communication? (4 marks)
2. What are the three main protocols used for routing in the internet? (6 marks)
Unit 2:
1. How does Hamming Codes work for error detection in digital transmission? (4 marks)
2. Explain the concept of PPP and its uses in internet connectivity. (6 marks)
Unit 3:
1. Which wireless standard is used for Fast Ethernet connections? (4 marks)
2. Explain the concept of Binary Exponential Backoff Algorithm in CSMA/CD networks. (6 marks)
Unit 4:
1. Explain the concept of logical addressing in packet switching networks. (4 marks)
2. Describe the difference between RIP and OSPF routing protocols. (6 marks)
Unit 5:
1. Describe the difference between TCP and UDP transport layer protocols. (4 marks)
2. Describe the difference between AIMD and QUIC protocol algorithms. (6 marks)
Unit 6:
1. Explain the concept of dynamic addressing in DHCP protocol. (4 marks)
2. Explain the concept of HTTP protocol in web servers. (6 marks)