

Question Bank IAE -01

1. List the five components of data communication system
 2. What are the different transmission modes in data communication
 3. Compare the serial and parallel transmission
 4. Show the important roles of Data Link Layer
 5. List data link layer services?
 6. What are the three criteria necessary for an effective and efficient network?
 7. Brief about protocols and standards.
 8. Show 5 devices are arranged in a mesh topology. How many cables are needed?
 9. What is framing?
 10. Compare the HDLC and PPP
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1. (a) Identify the various types of networks topologies along with their advantages and disadvantages in detail.
 - 2 (b) What is TCP/IP reference model? Explain the functions, protocol and services of each layer?
 3. (a) Organize and visually represents the Noisy Channels with neat diagram
 - 4 (b) Explain the operation of HDLC and PPP with suitable diagrams.
 5. (a) Write short notes on 1. Transmission modes 2. Types of connections.
 - 6 (b) Formulate and discuss the various types of transmission media, highlighting their merits and demerits
 7. (a) Demonstrate the concepts of error control and flow control by providing suitable examples. Illustrate how these techniques are applied in real-world networking scenarios to ensure data integrity and efficient data transmission.
 - 8 (b) Organize and visually represents the Noiseless Channels with neat diagram
 - 9 (a) Analyze the OSI Model by examining the functions, protocols, and services of each layer. Compare how these layers interact with each other in both theoretical and practical networking environments
 - 10 (b) Examine the application of virtual circuit switching in the Internet.

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11. (a) Examine the application of Datagram switching in the Internet.
12. (b) Distinguish the Circuit switching and virtual switching with suitable example.