

Unit1:

1. What is data communication? Explain
2. Explain transmitter system used in data communication .
3. Explain the terms:
 - a. Frequency
 - b. Bandwidth
 - c. Spectrum
 - d. Sender
 - e. Receiver
4. Explain time domain and frequency domain
5. What is the difference between medium and media
6. Explain the relationship between data-rate and bandwidth
7. Explain the purpose of data communication

Unit2:

1. Explain analog and digital data transmission
2. Explain modem with example
3. Define modulation techniques in brief
4. Explain CODEC
5. Explain transmission impairments
6. Define attenuation and attenuation distortion.
7. Explain delay and noise

Unit3:

1. What is network ? Explain
2. Explain ISO-OSI Reference model
3. Explain TCP/IP reference model
4. Explain transmission media with example
5. Explain coaxial cable and optical fibre
6. Define radio transmission with example
7. Explain microwave transmission with example

Unit4:

1. Explain ISDN?
2. What is data link layer ? explain
3. Define framing with example
4. Explain stop and wait protocol ?
5. Define sliding window protocol explain with example
6. What is HDLC explain
7. Explain static and dynamic channel allocation

Unit5:

1. Explain ALOHA and SLOTTED ALOHA
2. Explain CSMA/CD with example
3. Define IEEE standard 1002.3 with example
4. Define router and gateway in brief
5. Explain routing algorithm with example
6. What is internetworking explain
7. Explain IP addressing