

**M.Tech Sem-1 (NC) Examination****Networking-I****March 2022****Time : 3-00 Hours]****[Max. Marks : 100****SECTION-1**

- Q.1 Answer the following (any 2) (18)
1. Explain Data communication and Networking for today's enterprise
  2. Write a short note on: Communication Model
  3. Explain Need of Internet in Educational Organizations.
- Q.2 Answer the following (any 2) (16)
1. Explain data transmission with an example
  2. Differentiate: Digital vs analog data transmission
  3. Write a short note on: Guided Transmission Media
- Q.3 Answer the following (any 1) (16)
1. Write a short note on: Digital Data & Digital Signal
  2. Write a short note on: Types of Error in Signal encoding

**SECTION-2**

- Q.4 Answer the following (any 2) (18)
1. Explain Asymmetric Digital Subscribe Line
  2. Explain Frequency division multiplexing
  3. Write a short note on: xDSL
- Q.5 Answer the following (any 2) (16)
1. Write a short note on: Circuit-switching Networks
  2. Explain Packet-Switching Principles.
  3. Explain LTE-Advanced cellular wireless network
- Q.6 Answer the following (any 1) (16)
1. Explain Bus, Star and Mesh topologies with appropriate example
  2. Explain LAN Protocol Architecture.
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