

VCD 081022

VCD/ SYIT SEM III COMPUTER NETWORKS 75MARKS 2 ½ HOURS.

- N. B.: (1) All questions are compulsory.  
(2) Numbers to the right indicate marks.  
(3) Draw neat labeled diagrams wherever necessary.

1. Attempt any three of the following:

15 M

- Explain the concept of half duplex, full duplex and simplex with proper example.
- What do you mean by Topology? Explain Mesh and Star topology in detail.
- Why Line Coding Scheme is used? Discuss any two of it.
- Write a short note on Internet.
- Discuss TCP/IP protocol suit.
- Describe the terms: 1. Phase 2. Amplitude 3. Wavelength 4. Bandwidth 5. Bitrate

2. Attempt any three of the following:

15 M

- Explain Frequency Hoping Spread Spectrum.
- Discuss three phases of Circuit Switched Network.
- Explain Structure Of Packet Switch.
- Explain working of ARP.
- Explain Checksum with example.
- Explain the concept of Block code in detail.

3. Attempt any three of the following:

15 M

- With the help of a diagram explain HDLC Frames
- Explain PPP frame format.
- Explain the three types of Controlled Access
- Explain Ethernet Frame
- What is Bluetooth? Explain the architecture of Bluetooth.
- Distinguish between Hubs and Routers.

4. Attempt any three of the following:

15 M

- Explain IPv4 packet format.
- Explain Distance Vector Routing.
- Write short note on BGP4
- Explain Mobile IP and its inefficiencies.
- Explain ICMPv4 protocol.
- Write short note on Fragmentation technique in IP.

5. Attempt any three of the following:

15 M

- Explain HTTP in detail.
- Write a note on agents involves in E-Mail system.
- Write a note on SSH.
- Write a note on services provided by transport layer.
- Explain Three Way Handshake in TCP.
- Discuss role of NVT in remote login.

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