

Question bank UT2

Course Name : Computer network and data communication

Course Code : 22634

Chapter 3 : Physical layer

7 M

2 Marks Questions

- 1) List co axial cable and optical fiber cable connectors
- 2) List unguided transmission medium
- 3) State any four applications of infra-red transmission medium

4 Marks Questions

- 4) Describe WDM system with diagram and state its application
- 5) Describe data gram packet switching with the help of diagram and state it's applications
- 6) Describe ADSL model with necessary diagram and graph and state it's two features
- 7) Compare circuit switching and packet switching
- 8) Classify modem and state two features of each type of modem

Chapter 4 : Data link layer

12 M

2 Marks Questions

- 9) Define error control and flow control
- 10) Draw the block diagram of CRC generator
- 11) List flow control protocols for noise less and noisy channels
- 12) Draw frame format for point to point protocol

4 Marks Questions

- 13) In a particular data transmission system the data received was 1011010 using 7 bit odd parity hamming code determine correct code
- 14) Calculate CRC for the frame 110101011 and generator polynomial is $X^4 + X + 1$ generate code word for the transmitted frame
- 15) Describe transition phase of PPP with diagram
- 16) Describe 1 bit sliding window protocol under normal condition and with damaged frame with flow diagram
- 17) Describe Go back N ARQ protocol with flow diagram and conceptual diagram under missing frame condition or frame is lost

Chapter 5 : Network transport and application layer

16M

2 Marks questions

- 18) List different network connecting devices
- 19) Explain role of NAT in network layer
- 20) State function of Gateway & Repeater

4 Marks question

- 21) Define cryptography, explain components of cryptography
- 22) Explain concept of firewall with diagram and state it's two functions
- 23) Compare IPv4 & IPv6 on the basis of i) address length ii) Packet size iii) Configuration iv) IP security
- 24) On which layer the following devices work
 - i) Hub ii) Switch iii) Router iv) Repeater
- 25) Draw the block diagram of asymmetric key cryptography and state the functions of various components