

University of Sargodha

M. Sc. I. T, 2nd Term Exam 2014.

Subject: I. T

Paper: Computer Communication & Network (CMP: 2540)

Time Allowed: 2:30 Hour

Session: 2013-15

Maximum Marks: 80

Note: Objective part is compulsory. Attempt any four questions from subjective part.

Objective Part

- Q.1.** Write short answers of the following questions in 2-3 lines only (16*2)
- What is baud rate?
 - What are the advantages of using layered architecture?
 - What is the difference between connection less and connection oriented protocol?
 - Why frequency domain analysis is more useful explain with example.
 - Why two units for bandwidth are used i.e. bps or Hz?
 - Explain multiplexing with suitable example.
 - What is CRC and why it is used?
 - Why ARP is and which layer is responsible for this.
 - Is Virtual switched network is efficient than packet switched network? Justify your answer.
 - What is meant by error control and which layer is responsible for this.
 - Explain the difference between port address and MAC address.
 - Explain block coding with suitable example.
 - Describe the difference between TDM and FDM.
 - What are the different types of optical fiber?
 - What is SNR?
 - Provide an example of wireless LAN protocol

Subjective Part (12*4)

- Q.2.** Explain Cellular Wireless Networks in detail.
- Q.3.** Explain TCP/IP protocol suit with appropriate protocols on each layer.
- Q.4.** Discuss wired LAN topology with suitable examples.
- Q.5.** What is unguided media? Write a note on
a. Radio wave b. Microwave
- Q.6.** Consider the string 10000101 draw signaling diagram using Unipolar, Polar, Bipolar, Manchester and differential Manchester.
- Q.7.** Discuss the working, pros and cons of circuit switching and packet switched networks