University of Sargodha

MSC(IT) 2nd Term System Exams 2015

Paper: Computer Communication & Network (CMP:2540)

Maximum Marks: 80   **Time Allowed 2:30 Hours**

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

Objective Part

Q1. Write short answers of the following questions in 2-3 lines only   (16*2=32)

i. What is signaling rate?

ii. Define protocol with example

iii. List two cellular network protocols

iv. What is connection oriented protocol also list the name of that protocol?

v. What is time domain analysis for signal?

vi. What is error detection?

vii. Differentiate between ARP and RARP and which is layer is responsible for these.

viii. Explain block coding with suitable example.

ix. Indicate some significant differences between broadcast radio and microwave.

x. What function does a modem perform?

xi. What is a parity bit?

xii. What is attenuation?

xiii. How twists in per unit length reduce the noise in twisted pair cable?

xiv. Explain the term data network.

xv. Explain asynchronous communication.

xvi. What is CDMA?

Subjective Part   (12*4=48)

Q2. Write a note on guided media? Also elaborate its various types.

Q3. Discuss the working of virtual circuit switching with appropriate example.

Q4. Describe various LAN topologies with appropriate examples.

Q.5. Write a short note on the followings

- Encoding Schemes
- Network Layer
- Noise

Q.6. Explain Cellular Wireless Networks in detail.

Q.7 Discuss asynchronous transmission and synchronous transmission with examples.