University of Sargodha

BS 4th Semester/Term Exam 2021

Subject: Information Technology Paper: Computer Networks (CMPC-208)

Time Allowed: 02:30 Hours

Maximum Marks: 80

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

Objective Part

(Compulsory)

Q.1. Write short answers of the following in 2-3 lines each on your answer sheet.

(2*16)

- i. Why broadcast link is not favorable in communication?
- ii. What is client server model in Networks? Give any example.
- iii. How many types of address are used in networks?
- iv. What is difference between switch and Access Point?
- v. What is HDLC?
- vi. What is PAP & CHAP?
- vii. Which protocol use echo packet to check connectivity?
- viii. How www.google.com request is entertained by the google DNS server?
- ix. What is process to process communication? Which layer is responsible for it?
- x. What is Intra Domain routing?
- xi. What is infinity problem to count?
- xii. What is Encryption? Give example.
- xiii. How twisted pair cable is suitable for communication in the noisy medium?
- xiv. Difference between IPS/IDS, Firewall and VPN
- xv. What is AAA record?
- xvi. What do you mean by CSMA/CD and CSMA/CA?

Subjective Part (3*16)

- Q.2. What Do mean by 3 tier Architecture and why we recommend this in the network?
- Q.3. a) Write down the different sub protocols of Data link layer?
 - b) Difference between IPV4 and IPV6, explain ipv4 header.
- Q.4. You have given 200.254.32.1/24 IP address and your boss assigned you to make 8 networks blocks with this IP. Write down the new subnet mask and Ip blocks and tell how many useable addresses we get after subnetting?
- Q.5. How A router make difference between Intra and Inter-domain routing and in Distance Vector routing protocols router deals with count to infinity, why?
- Q.6. Describe detail analysis on switch working, ARP and ICMP protocols?