

University of Sargodha

BS 3rd Term Examination 2020

Subject: Computer Science

Time Allowed: 2:30 Hours

Paper: Computer Communication & Network (CMP-2540)

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. (16*2)

- i. ✓ What is encryption? Which layer is responsible for encryption?
- ii. ✓ How does attenuation differ from distortion?
- iii. ✓ Difference between packet switching and circuit switching.
- iv. ✓ Why twisted pair cable is twisted?
- v. ✓ Which two layers offer reliability?
- vi. ✓ What is the goal of multiplexing?
- vii. ✓ Define Infrared signals? Give an example.
- viii. ✓ Difference between layer 2 switch and bridge?
- ix. ✗ Define ALOHA and Slotted ALOHA techniques.
- x. ✓ What is cell sectoring?
- xi. ✓ Define IEEE 802.11 standard?
- xii. ✓ Difference between block coding and scrambling?
- xiii. What is the goal of physical addressing?
- xiv. Difference between multimode step index and graded index?
- xv. Why are protocols needed?
- xvi. Define Ethernet?

Subjective Part (3*16)

- Q.2. Explain OSI model with functionality of each layer.**
- Q.3. Define VLAN. How VLAN group members can be identified? What are the advantages of VLAN?**
- Q.4. Discuss the generations of cellular wireless networks?**
- Q.5. What is multiplexing? Explain the categories of multiplexing.**
- Q.6. Explain the technologies of xDSL.**