

University of Sargodha

BS 4th Term Examination 2016

Subject: Software Engineering Paper: Computer Communication & Network (CMP: 2540)

Time Allowed: 2:30 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. Define a network.
- ii. What is encryption? Which layer is responsible for encryption?
- iii. What is refraction?
- iv. What type of addresses are used in Network and Data Link layer?
- v. Define digital to analog conversion.
- vi. Which two layers offer reliability?
- vii. What is the goal of multiplexing?
- viii. Difference between Half-duplex and full-duplex?
- ix. Define two main categories of network.
- x. Why twisted pair cable is twisted?
- xi. What are the two types of line configuration?
- xii. Define infrared waves. Give an example.
- xiii. What is handoff?
- xiv. Define throughput and bandwidth.
- xv. Why are protocols needed?
- xvi. Define scrambling.

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. What are the advantages, disadvantages and connectors of fiber optic cable?**
- Q.5. What is multiplexing? Explain the categories of multiplexing.**
- Q.6. Explain the technologies of XDSL.**