University of Sargodha

BS 3rd Term Examination 2016

Subject: Computer Science **Paper: Computer Communication & Networks (CMP-2540)**

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

Objective Part Compulsory

Q-1: Answer the following question briefly. **2x16 = 32**

1. Define a network.
2. What is encryption? Which layer is responsible for encryption?
3. What is refraction?
4. What type of addresses are used in Network and Data Link layer?
5. Define digital to analog conversion.
6. Which two layers offer reliability?
7. What is the goal of multiplexing?
8. Difference between Half-duplex and full-duplex?
9. Define two main categories of network.
10. Why twisted pair cable is twisted?
11. What are the two types of line configuration?
12. Define infrared waves. Give an example.
13. What is handoff?
14. Define throughput and bandwidth.
15. Why are protocols needed?
16. Define scrambling.

Subjective

4x12 = 48

Attempt any four (4) questions

Q-2: Explain OSI model with functionality of each layer.

Q-3: How VLAN group members can be identified? What are the advantages of VLAN?

Q-4: What are the advantages and disadvantages of fiber optic cable?

Q-5: What is multiplexing? Explain the categories of multiplexing.

Q-6: Explain the technologies of xDSL.

Q-7: Discuss transmission impairments in detail.
