

30292

# University of Sargodha

M. Sc. 2<sup>nd</sup> Semester/Term Examination 2020

Subject: LT

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)
- What are the components of data communication system?
  - What is compression? Which layer is responsible for compression?
  - What is multimode step index?
  - What type of addresses are used in Network and Data Link layer?
  - Define digital to analog conversion.
  - How does sky propagation differ from line-of-sight propagation?
  - What is the goal of multiplexing?
  - Difference between Half-duplex and full-duplex?
  - Define two main categories of network.
  - Which connectors are used in fiber optic cable?
  - What are the two types of line configuration?
  - Define infrared waves. Give an example.
  - What is handoff?
  - What is the difference between switch and router?
  - Why are protocols needed?
  - How does single bit error differ from burst error?

## **Subjective Part (3\*16)**

- Q.2. Explain OSI model with functionality of each layer.
- Q.3. Discuss the steps involved in a typical call originated from a mobile user to a fixed subscriber.
- Q.4. What are the connectors, advantages and disadvantages of fiber optic cable?
- Q.5. Discuss the techniques used in serial transmission.
- Q.6. Discuss transmission impairments in detail.
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