

University of Sargodha

BS 3rd Term Examination 2020

Subject: Computer Science

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. (16*2)
- What is encryption? Which layer is responsible for encryption?
 - How does attenuation differ from distortion?
 - Difference between packet switching and circuit switching.
 - Why twisted pair cable is twisted?
 - Which two layers offer reliability?
 - What is the goal of multiplexing?
 - Define Infrared signals? Give an example.
 - Difference between layer 2 switch and bridge?
 - Define ALOHA and Slotted ALOHA techniques.
 - What is cell sectoring?
 - Define IEEE 802.11 standard?
 - Difference between block coding and scrambling?
 - What is the goal of physical addressing?
 - Difference between multimode step index and graded index?
 - Why are protocols needed?
 - 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.
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