University of Sargodha

BS 3rd Term Examination 2018

Subject: I. T   Paper: Computer Communication & Network (CMP: 2540)

Time Allowed: 2:30 Hours   Maximum Marks: 8

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.   (2*16)

✓ 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. Differentiate between noise and distortion.
✓ 6. What is the difference between switch and router.
✓ 7. How does single bit error differ from burst error?
✓ 8. Define channel capacity.
✓ 9. Why twisted pair cable is twisted?
✓ 10. What are the two types of line configuration?
✓ 11. Define infrared waves. Give an example.
  12. What is handoff?
✓ 13. Define throughput and bandwidth.
✓ 14. Why are protocols needed?
✓ 15. Define Scrambling.
  16. Define CDMA.

Subjective Part   (16*3=48)

Q. 2. What are the advantages and disadvantages of fiber optic cable?

Q. 3. Explain cellular wireless network in detail.

Q. 4. Discuss the different digital signal encoding formats with examples.

Q.5 Discuss transmission impairments in detail.

Q.6 Write a note on the following

   • Circuit-switching with example
   • Virtual Lan's