University of Sargodha

BS 3rd Semester/Term Exam 2021

Paper: Computer Networks (CMPC-205) Subject: Computer Science

Time Allowed: 02:30 Hours Maximum Marks: 6

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.
 - Define protocol.
 - Name any four application layer protocols. ii.
 - iii. What is RIP?
 - List the names of multi access protocols. iv.
 - Define Token ring protocol. v.
 - What is hamming code? How will you calculate it? vi.
 - Define subnet mask. vii.
 - Congestion control is implemented on which layer and how? viii.
 - ix. What is fragmentation?
 - If a host on a network is assigned a subnet address of 172.16.112.2/25, what would be the X. valid subnet address of this host?
 - What is broadcast address of 172.16.96.0/19 network? xi.
 - xii. What is meant by reliability and accuracy at transport layer?

Subjective Part (3*12)

- Q.2. Explain with the help of diagrams the basic network topologies.
- Q.3. Explain the working and protocols of datalink layer.
- Explain routing with the help of diagram. Also explain any three routing protocols. Q.4.
- Define and explain classful addressing. Q.5.
- Explain cellular and wireless networks along with their protocols. Q.6.