Ahsanullah University of Science and Technology

Department of Computer Science and Engineering

CSE 4101: Computer Networks, 4th Year 1st Semester, Fall 2021

Time: 25 minutes Full Marks: 10

Quiz #1 (Set-Dorne)

**ID: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

| 1. | Describe the encapsulation process of Internet protocol stack with the help of one sender, one router and one receiver. Assume that the sender and receiver are connected through the router. | [3] |
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| 2. | Suppose Host A wants to send a large file to Host B. The path from Host A to Host B has three links, of rates R1 = 500 kbps, R2 = 2 Mbps, and R3 = 1 Mbps. Assuming no other traffic in the network, what is the throughput for the file transfer? In this case which one should be the bottleneck link? | [3] |
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| 3. | What is RFC? How a single link can be used to connect multiple users in circuit switching? | [2] |
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| 4. | Write short notes on the following topic.   1. DoS attack 2. Packet sniffing | [2] |
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