

International Islamic University Chittagong
 Department of Computer Science and Engineering
 B. Sc. in CSE
 Mid term Exam, Spring 2023

Course Code: **CSE 3633**

Course Title: **Computer Networks**

Time: 1 hour and 30 minutes

Full Marks: 30

(i) The figures in the right-hand margin indicate full marks

(ii) Course Outcomes and Bloom's Levels are mentioned in additional Columns

1.	a)	What is computer network and why it is useful? Write the different types of networks with example?	CO1	Un	5
1.	b)	Compare and contrast between TCP/IP reference model and ATM reference model.	CO1	Un	5
2.	a)	What is MAC sublayer? Why do computers need both MAC Addresses and IP Addresses? Differentiate between CSMA/CA and CSMA/CD.	CO3	An	5
2.	b)	Analyze the performance of slotted aloha over pure Aloha.	CO3	An	5
OR					
	b)	Define hidden terminal problem and exposed terminal problem. Write the solution to solve the problems.	CO3	An	5
3.	a)	What is connection-oriented and connectionless service? Write the difference between datagram network and virtual-circuit network.	CO2	Un	5
3.	b)	192.168.5.85 /27 is an IP address of a host in a network. Find the following: I. Subnet mask II. Network Address III. Broadcast address IV. First usable address V. Last usable address	CO2	An	5
OR					
	b)	List the differences between IPv4 and IPv6.	CO2	Un	5