

## COMSATS Degree Programme COMSATS University Islamabad, Lahore Campus

## **Fall 2020**

## **Sessional 2**

Course Little:	Data Communication and Computer Networks				Course Code:	CSC339	Credit Hours:	4(3,1)
Course Instructor/s:	_				Programme Name:	BS Software Engineering		
Semester:		Batch:	FA18-BSE-	Section:	A	Date:		
Student's Name:					Reg. No.		Marks:	25

- 1. Read the below instructions carefully
- 2. No cheating. In case of caught, marks will be deducted
- 3. You are to create the code in a single text file. DONOT use Word. Upload the final file to CUOnline

Question # 1: Consider a scenario where you are employed as a network designer for a local bank. You are to design a network in NS2 detailing the different departments communication with each other. Imagine that there are 3 departments with 10 computers each. The departments would be the following

- a) Accounts Department
- b) HR Department
- c) Finance Department

Based on the above scenario, you are to assume, as a network designer, what would be the source and the destination yourself.

You are to present the following in your network design code

1)	Design of a network	[10]
ii)	Traffic Generation	[5]
iii)	Link Failure Avoidance	[5]
iv)	Graph representing the throughput of the network	[5]