



Air University
Mid Semester Lab Examination: Fall 2021

Subject: - **Computer Networks**
Course Code: -
Class: - **BS-CYS**
Semester: - **3rd**
Section(s): - **A**

Total Marks: 30
Date:
Time: 12 PM to 2 PM
Max Time Allowed: 2 Hours
FM(s) Name: **Adnan Shah**

Student's Name:

Reg-ID:

Instructions:

- Each Question contains equal marks
- Task based practical examination
- Compile complete report in PDF format which includes all task screenshot.
- Plagiarism of any kind will result in Zero (0) marks.

CLO 2

Question 01:

Calculate IP Addresses produced after applying the “formula (mathematical calculation for each IP)”.
Identify Class, Private/Public, Valid/Invalid and Reserved/Not Reserved for each of calculated IP Address.

1. 1*Student-ID % 200. 1*Student-ID % 150. 1*Student-ID % 100. 1*Student-ID % 50.
2. 2*Student-ID % 200. 2*Student-ID % 150. 2*Student-ID % 100. 2*Student-ID % 50.
3. 3*Student-ID % 200. 3*Student-ID % 150. 3*Student-ID % 100. 3*Student-ID % 50.
4. 4*Student-ID % 200. 4*Student-ID % 150. 4*Student-ID % 100. 4*Student-ID % 50.
5. 5*Student-ID % 200. 5*Student-ID % 150. 5*Student-ID % 100. 5*Student-ID % 50.

CLO 3

Question 02:

Using the **NET SHARE** command perform the following:

1. Create a directory:
 - a. Name format: networkexam{Reg}
 - b. Example: networkexam201764
2. Create a NEW SHARE for this directory.
 - a. Name format: networkexamshare{Reg}
 - b. Example: networkexamshare201764
3. Grant all users (everyone) with **CHANGE** permission
4. Set the allowed no. of users equal to the combination of first & last digits of your Reg.Number
 - a. Example: **201764** => **24**
5. Display the information for the **SHARE** you have created

CLO 3

Question 03:

TASK-1: ROUTE

1. Display the route table
2. Find the “Gateway” for your network.
3. Using ROUTE command add a route with the following values:
 - a. Destination IP = 148.66.137.120
 - b. Gateway = {Your Network Gateway}
 - c. METRIC = 100

TASK-2: NETSH

Using NETSH command Display and Save the following:

1. Information about Network IP configuration
2. Information about all TCP Connections
3. Information about all UDP Connections

Text file format: “{name} {Reg}.txt” e.g: “adnan201764.

NOTE: Also upload these TEXT FILES in your submission.

