National University of Computer and Emerging Sciences, Lahore Campus



Course: Program:

Date:

Section:

Computer Networks BS(Computer Science) **Duration:**

20 Minutes 27 Nov, 2019

Course Code: Semester:

CS307 Fall 2019

Total Marks: - 107 Quiz:

Page(s):

Name Huzarfa Hussnain Roll No. L16-4345

1. For each of the following IP address ranges, specify the network address, broadcast address, and maximum number of host IPs available. (Show all your work).

192.168.100.0/24 100.10.8.0/22 202.1.0.0/16 101.51.192.0/18

192.168.100.0/24

- Nefwork address = 192.168.100.0

- Broadcast address = 192.168.100.255

- Max. host IPs = 254

100.10.8.0 22

- Network address = 100.10.8.0

- Broadcast address = 100.10.11.255

- Max. nost IP's = 1022

3 202.1.0.0/16

- Metwork address = 100.10.8.0

- Broadcast address = 100.10.8.250

- Max. host 1P's = 65,534

P 101.51.192.0/18

-Network address = 101.51.192.0

- Broadcast address = 101.51.255.255

-Max. nost SP3 = 16,382

National University of Computer and Emerging Sciences, Lahore Campus





Course: Program:

Duration: Date: Section:

Computer Networks BS(Computer Science)

20 Minutes 27 Nov. 2019 Course Code:

Semester: Total Marks:

Quiz: Page(s):

Fall 2019 10

Name Mee 2 ab Ahmed Roll No. 161 -

1. For each of the following IP address ranges, specify the network address, broadcast address, and maximum number of host IPs available. (Show all your

192.168.100.0/24 100.10.8.0/22 202.1.0.0/16 101.51.192.0/18

2 Network Addresses Broadcast Adresses Max host 19s.

ii) 100.10.8.0

100.10.11.255 8 a 2 = =

iii) 202.1.0.0

202.1.255.255

2) 202 · 1, 000 800 000 0000 \$202 ol . 11111111. 11111111 iv) 101.51.192.0 101.51.10111111 = 14 - 2 = 16382

National University of Computer and Emerging Sciences, Lahore Campus



Course: Program:

Duration: Date:

Section:

Computer Networks BS(Computer Science)

20 Minutes 27 Nov, 2019

Course Code:

Semester: **Total Marks:**

CS307 Fall 2019 10

Quiz: Page(s):

4 2

Name Hoides Timen

Roll No. 016-4221

1. For each of the following IP address ranges, specify the network address, broadcast address, and maximum number of host IPs available. (Show all your work).

192.168.100.0/24 100.10.8.0/22 202.1.0.0/16 101.51.192.0/18

Sal

1) 192-168-100.0/E9 Networks

Network address = 192168-100.0 booodcast address = 192.168.100.299

Maximum no of hosts available = 298-2= 259

16+8+4+2+1

100-10.8. 0/22

Network address=100.10.8.0 bocadoast address = 100.10.8. 25 176 A

Maximum nof of hosts IP's available = 177-2=175.

202.1.0.0/16 3)

> N.A = 2021.0.0 Broadcart Address = 202.1.128.0 A

Host IP3 = 129-2=127

4) 101.51.192.0/18

NA = 101.51.192.0

BA = 101. 51.192.130 d

IP's= 129 +