



End Term Examinations (April/May 2019)

School: School of Engineering

Program: B.Tech-CTIS & MACT

Course: Enterprise Network Engineering

Course Code: CSC226

Semester: IV

Max Marks: 30

Duration (mins): 60 mins

Note- 1. Figure to the right indicates full marks.

2. Attempt any three questions.

Ques 1:

An organization is granted the block 196.10.10.0/24. The administrator wants to create fixed-length subnets, having 100 devices in each subnet.

- Find subnet mask and number of subnets that can be formed.
- Find the number of addresses in each subnet.
- Find first address and last address in first subnet.
- Find first address and last address in last subnet.

[10]

Ques 2:

- Which type of routing will you prefer among: Static Routing and Dynamic Routing? Why? [5]
- Why do we need to implement Network Address Translation in IPv4, but not in IPv6? [5]

Ques 3:

- Differentiate between Circuit Switching, Packet Switching and Message Switching. [5]
- In a block of addresses, we know the IP address of one host is 25.34.12.56/8. What is the network address and broadcast address in this block? [5]

Ques 4:

Explain the functions of 7 layers of OSI model.

[10]

Ques 5:

- Differentiate between Wired Equivalent Privacy, Wi-Fi Protected Access, Wi-Fi Protected Access-2. [5]
- What do you mean by two-node instability problem? What are the different ways to overcome this problem? [5]

*****ALL THE BEST*****