CMT 3217 Advance Computer Networking

Assignment - 2 SDN, Routing, Subnetting

Question 01

1. What are the benefits of having Software-defined networking (SDN)
2. Still, IPV6 is in Migration. Draw each migration technique and describe it.

Question 02

3. Describe the Routing categories and their advantages and disadvantages.

Question 03

Assume you are the Network administrator of ABC Company. You Need to divide the network into six departments which content

1. Sales 28 Computers
2. HR 20 Computers
3. Account 16 Computers
4. IT 3 Computers
5. Finance 20

You have received 200.18.15.0/24 addresses. Find

- Number of networks
- Number of Hosts
- Network ID
- First IP
- Last IP
- Broadcast ID
- Subnet mask

Question 04

Assume you are the Network administrator of DEF Company. You Need to divide the network into four departments which content

- Account 6 Computers
- IT 85 Computers
- HR 10 Computers
- Sales 54 Computers

You have received 196.15.12.0/24 address. Find

Network ID

First IP

Last IP

Broadcast ID

The subnet mask of each department   using VLSM

Submission Guidelines

• Deadline: 11.00 PM, 26th February 2023

• Submission format: PDF file (A scanned handwritten report. Document should be in your own handwriting.)

• Mention the following things on the cover page:

▪ Assignment 02 – Bandwidth Utilization & WAN Technology

▪ CMT 3217

▪ Advance Computer Networking

▪ Your name

▪ Registration Number

▪ Index Number

• Paper Size: A4

• Words: No word limit

• Pages: Maximum 10 pages, including cover page and references.