

Assignment module 3: Understanding and Maintenance of Network

Section 1: Multiple choice

Q1. What is the primary function of a router in a computer network?

ANS: C) forwarding data packets between networks.

Q2. What is the purpose of DNS in a computer network?

ANS: C) converting domain names to ip addresses.

Q3. What type of network topology uses a centralized hub or Switch to connect all devices?

ANS: A) Star

Q4. Which network protocol is commonly used for securely accessing and transferring files over a network?

ANS: B) FTP

Section 2: True or False

Q5. True or False: A firewall is a hardware or software-based security system that monitors and controls incoming and outgoing network traffic based on predetermined security rules.

ANS: TRUE

Q6. True or False: DHCP assigns static ip addresses to network devices

automatically.

ANS: FALSE

Q7. True or False: VLANs enable network segmentation by dividing a single physical network into multiple logical networks.

ANS: TRUE

Section 3: short Answer

Q8. Explain the difference between a hub and a switch in a computer network.

ANS:

HUB	SWITCH
Hub is a network device connects multiple wires from branches.	Switch is a network device connect Multiple computers.
The hub connector in star.	Switch is a intelligent than hub.
Hubs cannot data filter.	It gives more safety than hub.
This connects different stations.	Data network layer.
Hub is used broadcast message.	Switch generally used to multicast the message.
Act not store MAC addresses	Store MAC addresses

Q9. Describe the process of troubleshooting network issues

ANS: identify the situation

Grow a theory

Arrange of action

Check system functionality

Detail the problem

Section 4: Practical Application

Q10. Demonstrate how to configure a wireless router's security settings to enhance network security.

ANS: Open browser.

Enter ip address of a router.

Show the login screen on browser.

Write user name.

Write a password.

Click on MAC filtering tab.

Tick the enabled box. The enabling MAC filtering disable WPS.

Choose among the filter options that you want to set up.

To specify the MAC address that you want to deny access to your network click Add MAC Address in the MAC Filter list Section.

Enter the MAC Address of the computer or device that you want allow access to your network then click save.

Click OK to save the changes.

Section 5: Essay

Q11. Discuss the importance of network documentation and provide examples of information that should be documented.

ANS: The network is managing and maintaining is called network documentation.

Details documentation of a network and solve issues by providing is a clear picture is called network documentation.

Access to past issues and solutions in diagnosing problems is apply to fix problems is called network documentation.

Documentation of a network components of network run smoothly are providing a direction day to day management task.

Documentation security policies and access to controls support to the network and secure rule and requirements.

Give a record of a configuration is secure.

Get rule and legal requirements for maintaining details record of network security.

Shows the physical layout of a network devices, cables and connections is called documentation.

Keeping track of changes to documentation and update rule to reflect the network is called documentation.

Network documentation acts as a blueprint for maintaining and managing network of the controlled.