

# **Assignment:**

### **Understanding of Hardware and Its Components**

### **Section 1: Multiple Choice**

- 1. Which of the following is NOT a component of the CPU?
  - 1. ALU
  - 2. RAM
  - 3. CU
  - 4. 1 and 3 both
- 2. What is the function of RAM in a computer?
- 3. Which of the following is a primary storage device?
  - 1. HDD
  - 2. SSD
  - 3. SD card
  - 4. 1 and 2 both
- 4. What is the purpose of a GPU?

#### Section 2: True or False

- 5. True or False: The motherboard is the main circuit board of a computer where other components are attached.
- 6. True or False: A UPS (Uninterruptible Power Supply) is a hardware device that provides emergency power to a load when the input power source fails.
- 7. True or False: An expansion card is a circuit board that enhances the functionality of a component.

#### **Section 3: Short Answer**

- 8. Explain the difference between HDD and SSD.
- 9. Describe the function of BIOS in a computer system.
- 10. List and briefly explain three input devices commonly used with computers.

### **Section 4: Practical Application**

- 11. Identify and label the following components on a diagram of a motherboard:
  - CPU
  - RAM slots
  - SATA connectors



- PCI-E slot
- 12. Demonstrate how to install a RAM module into a computer.

### Section 5: Essay

- 13. Discuss the importance of proper cooling mechanisms in a computer system. Include examples of cooling methods and their effectiveness.
- 14. Explain the concept of bus width and its significance in computer architecture.

# Assignment: Installation and Maintenance of Hardware and Its Components

# Section 1: Multiple Choice

- 1. Which of the following precautions should be taken before working on computer hardware?
  - a) Ensure the computer is plugged in to prevent electrostatic discharge.
  - b) Wear an anti-static wrist strap to prevent damage from electrostatic discharge.
  - c) Work on carpeted surfaces to prevent slipping.
  - d) Use magnetic tools to handle components more easily.
- 2. What is the purpose of thermal paste during CPU installation?
  - a) To insulate the CPU from heat.
  - b) To provide mechanical support for the CPU.
  - c) To improve thermal conductivity between the CPU and the heat sink.
  - d) To prevent the CPU from overheating.
- 3. Which tool is used to measure the output voltage of a power supply unit (PSU)?
  - a) Multimeter
  - b) Screwdriver
  - c) Pliers
  - d) Hex key
- 4. Which component is responsible for storing BIOS settings, such as date and time, even when the computer is powered off?
  - a) CMOS battery
  - b) CPU
  - c) RAM
  - d) Hard drive



#### Section 2: True or False

- 5. True or False: When installing a new hard drive, it is essential to format it before use.
- 6. True or False: A POST (Power-On Self-Test) error indicates a problem with the CPU.
- 7. True or False: It is safe to remove a USB flash drive from a computer without ejecting it first.

### **Section 3: Short Answer**

- 8. Describe the steps involved in installing a new graphics card in a desktop computer.
- 9. What is RAID, and what are some common RAID configurations?

### **Section 4: Practical Application**

10. Demonstrate how to replace a CPU fan in a desktop computer.

### Section 5: Essay

11. Discuss the importance of regular maintenance for computer hardware and provide examples of maintenance tasks.

### **Assignment: Understanding and Maintenance of Networks**

### Section 1: Multiple Choice

- 1. What is the primary function of a router in a computer network?
  - a) Assigning IP addresses to devices
  - b) Providing wireless connectivity to devices
  - c) Forwarding data packets between networks
  - d) Managing user authentication and access control
- 2. What is the purpose of DNS (Domain Name System) in a computer network?
  - a) Encrypting data transmissions for security
  - b) Assigning IP addresses to devices dynamically
  - c) Converting domain names to IP addresses



- d) Routing data packets between network segments
- 3. What type of network topology uses a centralized hub or switch to connect all devices?
  - a) Star
  - b) Bus
  - c) Ring
  - d) Mesh
- 4. Which network protocol is commonly used for securely accessing and transferring files over a network?
  - a) HTTP
  - b) FTP
  - c) SMTP
  - d) POP3

#### Section 2: True or False

- 5. 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.
- 6. True or False: DHCP (Dynamic Host Configuration Protocol) assigns static IP addresses to network devices automatically.
- 7. True or False: VLANs (Virtual Local Area Networks) enable network segmentation by dividing a single physical network into multiple logical networks.

#### Section 3: Short Answer

- 8. Explain the difference between a hub and a switch in a computer network.
- 9. Describe the process of troubleshooting network connectivity issues.

### **Section 4: Practical Application**

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

### Section 5: Essay

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



### **Assignment: Troubleshooting and Helpdesk**

### Section 1: Multiple Choice

- 1. What is the first step in the troubleshooting process?
  - a) Implementing a solution
  - b) Identifying the problem
  - c) Testing the solution
  - d) Documenting the solution
- 2. Which of the following tools is commonly used to diagnose hardware issues by testing electrical connections?
  - a) Loopback plug
  - b) Toner probe
  - c) Multimeter
  - d) Cable tester
- 3. Which of the following best describes the purpose of a VPN (Virtual Private Network)?
  - a) Encrypting network traffic to prevent eavesdropping
  - b) Connecting multiple LANs (Local Area Networks) over a wide area network (WAN)
  - c) Authenticating users and controlling access to network resources
  - d) Reducing latency and improving network performance
- 4. Which Windows utility can be used to view system logs, monitor performance, and diagnose hardware and software issues?
  - a) Task Manager
  - b) Device Manager
  - c) Event Viewer
  - d) Control Panel

#### Section 2: True or False

- 5. True or False: Safe Mode is a diagnostic mode in Windows that loads only essential system services and drivers, allowing users to troubleshoot and fix problems with the operating system.
- 6. True or False: A system restore point is a snapshot of the computer's system files, registry, and configuration settings at a specific point in time, which can be used to revert the system to a previous state if problems occur.



7. True or False: Ping is a command-line utility used to test network connectivity by sending ICMP echo requests to a target device and waiting for ICMP echo replies.

### Section 3: Short Answer

8. Describe the steps involved in troubleshooting a computer that fails to boot into the operating system.

### **Section 4: Practical Application**

9. Demonstrate how to troubleshoot network connectivity issues on a Windows computer using the ipconfig command.

### Section 5: Essay

10. Discuss the importance of effective communication skills in a helpdesk or technical support role.



# **Assignment: Network Fundamentals and Building Networks**

### Section 1: Multiple Choice

- 1. What is the primary function of a router in a computer network?
  - a) Assigning IP addresses to devices
  - b) Providing wireless connectivity to devices
  - c) Forwarding data packets between networks
  - d) Managing user authentication and access control
- 2. What is the purpose of DHCP (Dynamic Host Configuration Protocol) in a computer network?
  - a) Assigning static IP addresses to devices
  - b) Resolving domain names to IP addresses
  - c) Managing network traffic and congestion
  - d) Dynamically assigning IP addresses to devices
- 3. Which network device operates at Layer 2 (Data Link Layer) of the OSI model and forwards data packets based on MAC addresses?
  - a) Router
  - b) Switch
  - c) Hub
  - d) Repeater
- 4. Which network topology connects all devices in a linear fashion, with each device connected to a central cable or backbone?
  - a) Star
  - b) Bus
  - c) Ring
  - d) Mesh

#### Section 2: True or False

- 5. True or False: A VLAN (Virtual Local Area Network) allows network administrators to logically segment a single physical network into multiple virtual networks, each with its own broadcast domain.
- 6. True or False: TCP (Transmission Control Protocol) is a connectionless protocol that provides reliable, ordered, and error-checked delivery of data packets over a network.
- 7. 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.



#### Section 3: Short Answer

8. Describe the steps involved in setting up a wireless network for a small office or home office (SOHO) environment.

### **Section 4: Practical Application**

9. Demonstrate how to configure a router for Internet access using DHCP (Dynamic Host Configuration Protocol).

# Section 5: Essay

10. Discuss the importance of network documentation in the context of building and managing networks.

# Assignment: Network Security, Maintenance, and Troubleshooting Procedures

# Section 1: Multiple Choice

- 1. What is the primary purpose of a firewall in a network security infrastructure?
  - a) Encrypting network traffic
  - b) Filtering and controlling network traffic
  - c) Assigning IP addresses to devices
  - d) Authenticating users for network access
- 2. What type of attack involves flooding a network with excessive traffic to disrupt normal operation?
  - a) Denial of Service (DoS)
  - b) Phishing
  - c) Spoofing
  - d) Man-in-the-Middle (MitM)
- 3. Which encryption protocol is commonly used to secure wireless network communications?
  - a) WEP (Wired Equivalent Privacy)
  - b) WPA (Wi-Fi Protected Access)
  - c) SSL/TLS (Secure Sockets Layer/Transport Layer Security)
  - d) AES (Advanced Encryption Standard)
- 4. What is the purpose of a VPN (Virtual Private Network) in a network security context?



- a) Encrypting
- network traffic to prevent eavesdropping
- b) Filtering and blocking malicious websites
- c) Restricting access to network resources based on user identity
- d) Detecting and mitigating network intrusions and attacks

#### Section 2: True or False

- 5. True or False: Patch management is the process of regularly updating software and firmware to address security vulnerabilities and improve system performance.
- 6. True or False: A network administrator should perform regular backups of critical data to prevent data loss in the event of hardware failures, disasters, or security breaches.
- 7. True or False: Traceroute is a network diagnostic tool used to identify the route and measure the latency of data packets between a source and destination device.

#### Section 3: Short Answer

8. Describe the steps involved in conducting a network vulnerability Assignment.

### Section 4: Practical Application

9. Demonstrate how to troubleshoot network connectivity issues using the ping command.

#### Section 5: Essay

10. Discuss the importance of regular network maintenance and the key tasks involved in maintaining network infrastructure.



# **Assignment: CCNA**

- 1- Which of the following messages in the DHCP process are broadcasted? (Choose two)
- A. Request
- B. Offer
- C. Discover
- D. Acknowledge
- 2- Which command would you use to ensure that an ACL does not block web-based TCP traffic?
- A. permit any
- B. permit tcp any any eq 80
- C. permit tcp any eq 80
- D. permit any any eq tcp
- 3- R1, R2, R3, and R4 have their Fast Ethernet 0/0 interfaces attached to the same VLAN. A network engineer has typed a configuration for each router by using a word processor. He will later copy and paste the configuration into the routers. Examine the following exhibit, which lists configuration for the four routers, as typed by the network engineer. Assuming that all four routers can ping each other's LAN IP addresses after the configuration has been applied, choose the routers that will be able to form a neighbor relationship with the other routers on the LAN. (You can assume that, if not shown in the exhibit, all other related parameters are still set to their defaults.) (Choose two)



```
Configuration (
interface faste
   ip address :
router ospf 0
   network 10.0
Configuration (
interface faste
   ip address :
router ospf 1
   network 10.0
Configuration (
interface fast
   ip address :
router ospf 3
   network 10.1
Configuration (
interface faste
   ip address :
router ospf 2
   network 10.0
A. R1
B. R2
C. R3
D. R4
E. None of the routers will exchange routing information.
```



4-enable secret hashed using the algorithm.	[password]	is
A. MD5		
B. AH		
C. PSK		
D. ESP		
E. WPA2		
5- An engineer connects to Router R1 and issues a show ip ospf no The status of neighbor 2.2.2.2 lists FULL/BDR. What does the BDR r	3	ind.
A. R1 is an Area Border Router.		
B. R1 is a backup designated router.		
C. Router 2.2.2.2 is an Area Border Router.		
D. Router 2.2.2.2 is a backup designated router.		
6- Which command is used to view the neighbor discovery table o	n a PC?	
A. show ipv6 neighbor		
B. show ipv6 neighbors		
C. netsh interface ipv6 show neighbor		
D. netsh interface ipv6 show neighbors		
7- What type of variable is being shown? Routers = [R1,R2,R3]		
A. List		
B. Dictionary		
C. Simple		
D. Unsigned integers		
8- Identify the fields in an IPv4 header. (Choose three)		
A. Host component		
B. Time to Live		
C. Source address		

D. Destination address



E. Network address

- 9- Host A and Host B sit in two different subnets. The path between the subnets of these two hosts runs through three different Layer 3 forwarding devices (routers and Layer 3 switches). A network engineer uses the APIC-EM Path Trace ACL Analysis tool to analyze the path used for Host A to send packets to Host B. Which part of the function is done specifically by the ACL Analysis or ACL Trace part of the tool?
- A. Discovery of the topology that exists between the two hosts
- B. Analysis of the Layer 3 forwarding decisions in the path from Host A to B
- C. Analysis of the Layer 2 forwarding decisions in the path from Host A to B
- D. Analysis of the impact of ACLs on the packets that would flow from Host A to B
- 10- Which IPv6 address is the equivalent of the IPv4 interface loopback address 127.0.0.1?
- A. ::1
- B. ::
- C. 2000::/3
- D. 0::/10
- 11- Which command is used to apply an ACL to an interface?
- A. access-group
- B. ip access-group
- C. ip access-list
- D. ip access-class
- E. access-class
- F. access-list
- 12- Which command and mode will successfully configure a hostname of R1 on a Cisco IOS router?
- A. Router(config)#name R1
- B. Router# hostname R1
- C. Router(config)#hostname R1
- D. Router#name R1



E.

Router>hostname R1

- F. Router>name R1
- 13- Which of the following reserved IPv4 addresses has binary 0s in all of the host bit positions?
- A. Local broadcast address
- B. Loopback address
- C. Directed broadcast address
- D. Network address
- E. All zeros address
- 14- A Cisco Catalyst switch connects to what should be individual user PCs. Each port has the same port security configuration, configured as follows: interface range gigabitethernet 0/1 24 switchport mode access switchport port-security switchport port-security mac-address sticky Which of the following answers describe the result of the port security configuration created with these commands? (Choose two)
- A. Prevents unknown devices with unknown MAC addresses from sending data through the switch ports.
- B. If a user connects a switch to the cable, prevents multiple devices from sending data through the port.
- C. Will allow any one device to connect to each port, and will save that device's MAC address into the startup-config
- D. Will allow any one device to connect to each port, but will not save that device's MAC address into the startup-config



15- What is the Administrative Distance of internal EIGRP routes?

A. 170	
B. 90	
C. 20	
D. 1	
E. 110	
F. 120	
16- When a subnet mask is presented in binary, what do the binary 1s represent?	?
A. The network portion of an associated address	
B. The host portion of the subnet mask	
C. The number of wildcard bits in the subnet mask	
D. The number of wildcard bits in the address	
E. The network portion of the subnet mask	
F. The host portion of an associated address	
17- Which switch would STP choose to become the root bridge in the selection process?	
A. 32768: 11-22-33-44-55-66	
B. 32768: 22-33-44-55-66-77	
C. 32769: 11-22-33-44-55-65	
D. 32769: 22-33-44-55-66-78	
18- Which of the following devices is used by the service provider to provide WA services?	۸N
A. Router	

B. Core router

C. WAN switch

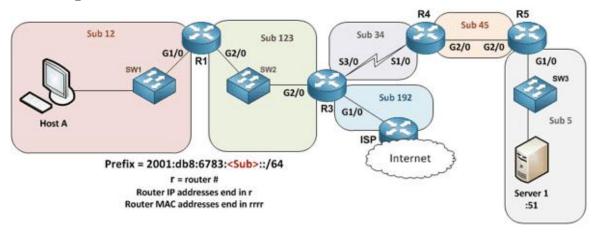
D. CSU/DSU



19- Your Cisco IOS router is acting as a DHCP server.

Which command will display the addresses that have been handed out to clients on the LAN?

- A. show ip dhcp assignments
- B. show ip dhcp address
- C. show ip dhcp conflicts
- D. show ip dhcp bindings
- E. show ip dhcp pool
- 20- Which of the following commands would you use to enable EIGRP only on those interfaces with an IP address from 10.1.1.0 through 10.1.1.63?
- A. network 10.1.1.0 0.0.0.63
- B. network 10.1.1.0/63
- C. router eigrp 10.1.1.0 0.0.0.63
- D. network 10.0.0.0 0.0.0.255
- 21- R3 has a static route configured that points toward the service provider. What command could you use to have R3 advertise an OSPFv3 default route to the internal network, regardless of whether R3 had its default static route?



- A. The decision to advertise a default route depends on the static route always being present on R3.
- B. The default behavior is to redistribute any default IPv6 routes into OSPFv3, so no action is required.
- C. Each of the other routers needs a static default route that leads to R3.



D. Use the command

default-information originate always in interface mode for G1/0 on R3.

- E. Have R3 use the command default-information originate always in OSPFv3 router configuration mode.
- 22- You are configuring dynamic NAT on your Cisco IOS router. Which command is used to verify the interfaces that are being used as the outside interface and the inside interface?
- A. show interfaces
- B. show ip route
- C. show ip nat translations
- D. show ip interface brief
- E. show ip interface
- F. show ip nat statistics
- 23- When using the "show EtherChannel summary "command, what does the "u "flag signify?
- A. Waiting to be aggregated
- B. Suspended
- C. In use
- D. Unsuitable for bundling
- 24- Which command could you enter to encrypt passwords?
- A. enable secret
- B. username {username} secret {password}
- C. service password-encryption
- D. All of the above
- E. None of the above



25- You are setting up a

Cisco IOS router as a DHCP server.

Which command is used to identify the IPv4 addresses that will be in the DHCP pool?

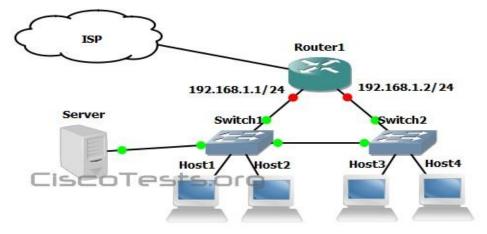
- A. network
- B. dns-server
- C. default-router
- D. ip dhcp excluded-address
- E. lease
- F. ip dhcp pool
- G. domain-name
- 26- Which of the following statements are true regarding the processing of ACLs that have been applied to router interfaces? (Choose two)
- A. Inbound ACLs will be processed before the routing table lookup occurs
- B. Inbound ACLs will be processed after the routing table lookup has occurred
- C. Outbound ACLs will be processed after the routing table lookup has occurred
- D. Outbound ACLs will be processed before the routing table lookup occurs
- 27- imagine you configured OSPFv2 in a small lab network. Which of the following answers list a condition that could keep the routers in your lab from learning all the routes to all the IPv4 routes in your small lab network? (Choose two)
- A. An ACL could be blocking router advertisements.
- B. Two neighbouring routers that connect to the same link have been configured with the same OSPF area and with the same IPv4 subnet mask.
- C. Any physical layer problem that would prevent two neighbouring routers from being able to ping each others IPv4 addresses in the subnet that exists between the two routers.
- D. Two neighboring routers that connect to the same link have been configured with the same OSPF process ID on the router ospf command.
- 28- Which statements describe neighbor discovery functionality in IPv6? (Choose two)
- A. Determines the link layer address of a neighbor
- B. Finds neighbor switches on the link



C. Is achieved by using

Dynamic Host Configuration Protocol for IPv6, or DHCPv6 with IPv6 multicast

- D. Queries for duplicate addresses
- 29- Which IPv6 prefix will the typical enterprise network receive from the service provider?
- A. /52
- B. /56
- C. /64
- D. /32
- E. /48
- F. /60
- 30- How should be configured a switch so that it could be accessed remotely?
- A. Assign a password and privilege level
- B. Apply the access control list, or ACL, to the virtual type terminal, or vty, lines
- C. Configure a gateway for the switch
- D. Generate a certificate
- 31- Refer to the exhibit. A network technician is asked to design a small network with redundancy. The exhibit represents this design, with all hosts configured in the same VLAN. What conclusions can be made about this design?



- A. This design will function as intended.
- B. Spanning-tree will need to be used.
- C. The router will not accept the addressing scheme.



D. The connection

between switches should be a trunk.

E. The router interfaces must be encapsulated with the 802.1Q protocol.

### **Assignment: Windows Server**

- 1. What two options are provided in the type of installation window during Windows Server 2016 installation?
- 2. Write the step How to configure server step by step?
- 3. What are the Pre installation tasks?
- 4. What are the Post installation tasks?
- 5. What is the standard upgrade path for Windows Server?
- 6. What is the Physical structure of AD?
- 7. What is the Logical components of Active Directory?
- 8. What is the Full form Of LDAP?
- 9. What is the location of the AD database?
- 10. What is child DC?
- 11. Explain the term forest in AD
- 12. What is Active Directory? Check all that apply.
  - An open-source directory server
  - A Windows-only implementation of a directory server
  - Microsoft's implementation of a directory server
  - An LDAP-compatible directory server
- 13. When you create an Active Directory domain, what's the name of the default user account?
  - Superuser
  - Root
  - Username
  - Administrator
- 14. AD domain provides which of the following advantages? Check all that apply.



- Centralized authentication
- More detailed logging
- Centralized management with GPOs
- Better performance
- 15. What are the minimum hardware requirements for installing Windows Server 2016?
- 16. Explain the different editions of Windows Server 2016 and their features.
- 17. Walk through the steps of installing Windows Server 2016 using GUI mode.
- 16. Describe the steps for installing Windows Server 2016 in Server Core mode.
- 17. How do you configure network settings during Windows Server 2016 installation?
- 18. Explain the process of promoting a Windows Server to a domain controller.
- 19. Discuss the steps involved in upgrading from a previous version of Windows Server to Windows Server 2016.
- 20. What is Active Directory Domain Services (AD DS), and what are its key components?
- 21. How do you create a new Active Directory user account in Windows Server?
- 22. Explain the process of creating and managing Group Policy Objects (GPOs) in Windows Server 2016 or 2019.
- 23. What are Organizational Units (OUs) in Active Directory, and how do you use them?
- 24. Describe the process of delegating administrative privileges in Active Directory.
- 25. Discuss the role of Windows Firewall in Windows Server and how to configure it.
- 26. What is Network Address Translation (NAT) in Windows Server, and how do you configure it?
- 27. Explain the concept of Dynamic Host Configuration Protocol (DHCP) and how to configure it in Windows Server 2016.



- 28. Describe the process of configuring DNS (Domain Name System) in Windows Server.
- 29. What is Server Manager, and how do you use it to manage servers in Windows Server?
- 30. Discuss the role of Remote Desktop Services (RDS) in Windows Server 2016 or 2019 and how to configure it.
- 31. Explain the process of installing and configuring Hyper-V virtualization in Windows Server 2016.
- 32. How do you monitor server performance and manage event logs in Windows Server?
- 33. Describe the different types of storage options available in Windows Server.
- 34. What is the role of File Server in Windows Server, and how do you configure it?
- 35. Explain the process of implementing and managing Distributed File System (DFS) in Windows Server 2016.
- 36. Discuss the built-in backup and recovery options available in Windows Server 2016 or 2019.
- 37. How do you configure Windows Server Backup to back up critical data?
- 38. Explain the steps for restoring files and folders using Windows Server Backup.
- 39. What are some common troubleshooting techniques for Windows Server startup issues?
- 40. How do you troubleshoot network connectivity problems in Windows Server?
- 41. Discuss common Active Directory-related issues and their troubleshooting steps.
- 42. Explain how to troubleshoot performance problems on Windows Server 2016 or 2019.



### **Assignment: Linux Server**

- 1. What is the minimum number of partitions you need to install Linux?
- 2. Explain About Chmod Command
- 3. How to check Linux memory utilization
- 4. Describe the root account
- 5. What is shell?
- 6. What is Linux?
- 7. What is Bash?
- 8. How can you find out how much memory Linux is using?
- 9. What is a typical size for a swap partition under a Linux system?
- 10. How do you switch from one desktop environment to another, such as switching from KDE to Gnome?
- 11. What are the kinds of permissions under Linux
- 12. What are the different modes when using vi editor?
- 13. How to run Windows Software on Linux operating System?
- 14. what is difference between windows and Linux
- 15. What is the advantage of Open Source?
- 16. Explain File Permission groups in Linux?
- 17. Explain different file system types in Linux?
- 18. Why LVM is required?
- 19. How to exit from vi editors?
- 20. How to delete information from a file in vi?



- 21. You have a new, empty hard drive that you will use for Linux. What is the first step you use.
- 22. Write the Linux command to show the current working directory.
- 23. write the Linux command to get help with various options.
- 24. Write the linux comman! to display what all users are currently doing.
- 25. write the Linux command to get information about the operating system.
- 26. Write the Linux command to create a hard link of a file.
- 27. Write the Linux command to create a soft link of a file as well as Directory.
- 28. Write the Linux command! to search for specific pattern in a file.
- 29. Write the Linux command to show the use of basic regular expressions using grep command.
- 30. What is the maximum file size on the ext4 file system?
- 31. What is the maximum file size on the xfs file system?
- 32. What is Difference between LILO And GRUB?
- 33. How to Recover Linux Password?
- 34. Which command use for format partition in Linux OS?
- 35. How to enable "quota" in Linux?
- 36. How to Mount Partition in Linux?
- 37. What is use of "mdadm" Command?
- 38. How to configure secure Apache web server in Linux?
- 39. How to Set Static IP in Linux?
- 40. What is selinux Security?



**Assignment: Cyber security** 



1. Explain CIA triad.

- 2. What is a Firewall and why is it used?
- 3. What is the difference between VA(Vulnerability Assignment) and PT(Penetration Testing)?
- 4. What is the difference between HIDS and NIDS?
- 5. Explain SSL Encryption
- 6. What is Data Leakage?
- 7. What is a Brute Force Attack? How can you prevent it?
- 8. Explain MITM attack and how to prevent it?
- 9. Explain XSS attack and how to prevent it?
- 10. What is a Botnet?
- 11. Explain SSL and TLS
- 12. Define the terms Virus, Malware, and Ransomware.
- 13. What is Phishing? Provide an example.
- 14. Define the terms Encryption and Decryption.
- 15. What is a DDoS attack and how does it work?
- 16. What is a zero-day vulnerability?
- 17. What is network sniffing
- 18. What is a Security Operations Center (SOC)?
- 19. What is the importance of forensics in cyber security?
- 20. Discuss the future trends in cyber security. Which skills are important for cyber security professionals?
- 21. What is the difference between IDS and IPS?