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(2 marks)

DIPLOMA IN COMPUTER NETWORKS AND SYSTEMS ADMINISTRATION (DCNSA)

LEVEL II

WINDOWS SERVER ROLES AND FEATURES

TUESDAY: 3 December 2024. Morning Paper.

This paper consists of fifty (50) Multiple Choice Questions. Answer ALL questions by indicating the letter (A, B, C or D) that represents the correct answer. Each question is allocated two (2) marks.

- 1. A server's ability to run efficiently on both low-end machines and high-end, multi-processor systems is known as
 - compatibility A.
 - Β. portability
 - C. scalability
 - D. connectivity
- 2. Which hierarchical component does Windows Server Active Directory use to represent a collection of domains sharing a common namespace?
 - Forest A.
 - B. Tree
 - C. Catalog
 - D. Schema
- 3. Network speed and redundancy play crucial roles in determining the performance, reliability and availability of a Windows server infrastructure. Which key factor primarily influences network speed in large-scale deployments?
 - A. Number of CPU cores
 - B. Amount of RAM
 - C. Type of Network Interface Cards (NICs)
 - D. Bandwidth capacity of network switches
- 4. What makes implementation of two-factor authentication crucial in an environment that uses Remote Desktop Services?
 - A. To improve the speed of remote connections
 - To provide an additional layer of security Β.
 - C. To reduce server downtime
 - D. To allow multiple users to access the server simultaneously
- 5. Disk quotas are restrictions established by a system administrator to limit the amount of file system space that a user or group can utilise. Disk quotas can effectively manage storage resources in environments with multiple users by
 - A. preventing users from monopolising disk space for fair resource access
 - B. enhancing data retrieval speeds and reducing latency for all system users
 - C. encrypting files stored on the disk to prevent unauthorised user access
 - D. automatically compressing files to save storage space for all users involved

Time Allowed: 2 hours.

(2 marks)

(2 marks)

(2 marks)

(2 marks)

kasneb

- 6. A firewall should be configured to effectively segregate various network zones such as public, private and DMZ within a server environment in order to
 - A. enhance network performance
 - Β. improve server hardware
 - C. securely control network traffic
 - D. implement faster data transfers

DN23 Page 2 Out of 8

- 7. In the context of windows server, which component is essential for managing system configuration and can be accessed through tools such as 'regedit'?
 - Registry A.
 - Β. Workgroup
 - C. Domain
 - D. Kerberos
- 8. Before installing a server with an operating system, it is important to verify that the hardware meets the necessary requirements. Where can you find the hardware specifications for a server operating system?
 - A. Google on the Internet
 - Β. Ask the Vendor
 - C. Ask a colleague
 - D. Hardware Compatibility List
- 9. Which technology enables server virtualisation, optimises hardware resource utilisation and isolates various virtual opi.co environments?
 - Virtual Network Adapter A.
 - Β. Hypervisor
 - C. Storage Array
 - D. Router
- In a cloud computing environment, which component is responsible for overseeing the distribution of physical 10. resources to various virtual instances, taking into account workload demands, performance requirements and the availability of resources?
 - A. Hypervisor
 - B. Virtual Machine Monitor (VMM)

Storage Area Network (SAN)

- C. Cloud Controller D.
- 11. What is the term used for the device that assigns IP addresses to computers requesting access to their Local Area Network?
 - A. TCP/IP Server
 - B. **IP** Server
 - C. **DNS** Server
 - **DHCP** Server D.
- 12. Automating tasks enhance operational efficiency and minimise human errors in the management of Windows Server environments by
 - allowing quicker deployment of system updates and patches A.
 - B. streamlining routine operations and reducing manual input
 - C. simplifying user access controls and permissions management
 - D. improving network monitoring and performance analysis

(2 marks)

(2 marks)

(2 marks)

(2 marks)

(2 marks)

(2 marks)

- 13. The framework used in Windows Server for management of applications, offering a unified administration interface for Microsoft and third-party management tools is known as
 - A. Microsoft snap-in management console
 - Β. Panel management console
 - C. Microsoft Management console
 - D. Device Manager console

(2 marks)

(2 marks)

(2 marks)

(2 marks)

(2 marks)

(2 marks)

- 14. What is the mechanism that prevents infinite loops in routing and ensures that misrouted packets do not clog the network?
 - A. Time To Live
 - Β. NAT
 - C. Sliding
 - D. Latency
- 15. As a system administrator in a medium-sized organisation, you receive a request from a colleague for access to shared files on a remote server. To help them, you need to quickly identify the available network resources and shares. Which command in Windows Server can you use to list the available network resources and shares on a local or remote machine?
 - A. Net user
 - B. Net View
 - C. User
 - D. Uname
- Windows Server is a versatile platform that can support a wide range of applications and services. What attribute 16. AND AND . defines the access rights and permissions granted to a user?
 - User logon name A.
 - B. First Name
 - C. Password
 - D. Group membership
- 17. Which command-line tool can be used to manage user accounts in active directory?
 - A. dsadd
 - B. chkdsk
 - C. promo
 - D. ipconfig

18. Justify why you would implement a Virtual Private Network (VPN) on a Windows Server.

- A. To increase the server's memory
- Β. To assign dynamic IP addresses to users
- C. To secure it from external attackers
- D. To enable faster server startup
- 19. What occurs when a user is removed from a group that has access permission for a shared folder?
 - A. The user retains access indefinitely
 - Β. The user immediately loses access to the folder
 - C. The user's access is removed after a reboot
 - D. The user must be manually removed from the folder's access list (2 marks)

- 20. How would you protect sensitive data by ensuring that only authorised users can access and read the data even if the files are intercepted?
 - A. Encryption
 - Β. Authentication
 - C. Authorisation
 - D. Auditing

21. Windows Server offers a variety of services for businesses and organisations. Which service is mainly responsible for hosting websites and web applications?

- A. Dynamic Host Configuration Protocol (DHCP)
- Β. Domain Name System (DNS)
- C. Simple Mail Transfer Protocol (SMTP)
- D. Internet Information Services (IIS)
- 22. In the context of the virtual machines, a snapshot is
 - a real-time backup of a physical machine A.
 - Β. a saved state of a VM at a particular point in time
 - C. a method of increasing the performance of a VM
 - D. a software feature to monitor network traffic
- 23. Which component should be included in network testing documentation to ensure thorough coverage of the testing process?
 - A timeline detailing the phases of the project A.
 - A list of all hardware devices in the network B.
 - C. A detailed description of testing methods and results
 - D. A summary of feedback from users on performance

24. Role-Based Access Control (RBAC) assigns permissions according to a user's roles within an organisation instead of granting individual permissions to each user. File access management can be improved in a collaborative work environment by

- providing open access to shared resources for all A.
- enforcing strong password policies for users Β.
- C. allowing user requests for file access approval
- D. creating role-based access control for each group

25. Which memory management technique allows multiple processes to run simultaneously in their own memory space? A. Paging

- Β. Fragmentation
- C. Swapping
- D. Segmentation

26. Which role is responsible for authenticating users and enforcing security policies in a domain environment? **DHCP** Server A.

- B. Active Directory Domain Services (ADDS)
- C. **DNS** Server
- D. File and Storage Services

(2 marks)

(2 marks)

(2 marks)

(2 marks)

(2 marks)

(2 marks)

27.	A. B. C.	tool provides a centralised platform for managing features, roles and settings on the server? Server based network Windows Admin Center VirtualBox	
	D.	Server Manager	(2 marks)
28.	А. В.	windows server feature offers real-time protection against malware and other security threats? Windows Defender Failover Clustering	
	C. D.	Windows PowerShell Nginx	(2 marks)
29.		vork environment consists of interconnected devices that communicate through a shared set of ls. It is important to configure a DNS server in a network environment in order to host file shares for users manage dynamic IP address assignment	rules and
	Б. С.	translate domain names into IP addresses	
	D.	enforce user authentication policies	(2 marks)
30.	Regular A.	disk cleaning in windows server help improve performance and stability by	
	А. В.	freeing up storage space and optimising system resources	NO.
	C.	updating all drivers and improving server efficiency	. co.F
	D.	reducing disk fragmentation and boosting read speeds	(2 marks)
			(2 marks)
31.	improv	rtitioning involves dividing a physical drive into multiple logical sections. This enhances data organies access speed in large-scale storage systems by	isation and
	А. В.	isolating system files from user data for faster access allowing multiple users to access files simultaneously	
	Б. С.	reducing network congestion and improving bandwidth	
	D.	optimising data placement for faster read/write speeds	(2 marks)
32.	Α.	mary purpose of Organisational Units (OUs) in Active Directory is to provide a way to group and manage objects	
	B.	create security boundaries between objects	
	C. D.	store passwords for users manage file permissions on the network	(2 marks)
	D.	manage me permissions on the network	(2 marks)
33.	Which A. B.	DHCP component defines the range of IP addresses that can be assigned to clients? DHCP Options DHCP Lease	
	Б. С.	DHCP Reservation	
	С. D.	DHCP Scope	(2 marks)

- 34. Which one of the following statements **BEST** explains the Virtual Machines as used in Windows servers and roles?
 - A. A physical server used for hosting applications
 - B. A software emulation of a physical computer system
 - C. A device used for storing and managing data
 - D. A security protocol used in network configurations

35. What type of management interface provides a user-friendly way to configure and manage server settings in a Windows environment?

- A. GUI-based management interface
- B. Command-line only access
- C. Only available for personal use
- D. Incompatible with Active Directory
- 36. What role does a router play in facilitating communication between multiple devices on the windows server domain environment?
 - A. It assigns IP addresses to devices in the network
 - B. It manages user authentication for network access
 - C. It connects different networks and forwards data packets
 - D. It monitors network traffic and prevents intrusions
- 37. Which one of the following statements outlines the essential steps required to prepare network devices for deployment in an organisational network?
 - A. Conducting a site survey and selecting the right devices
 - B. Configuring device settings and updating firmware
 - C. Testing the network connection and ensuring compatibility
 - D. Documenting the installation process and user guidelines
- 38. As an IT manager, you are responsible for deploying virtual machines for a new application designed to support your organisation's operations. This application is anticipated to handle significant user traffic and requires high availability. What considerations should be considered when planning the deployment of virtual machines in a production environment?
 - A. Ensuring adequate hardware resources and load balancing
 - B. Selecting only low-cost virtual machines for deployment
 - C. Limiting user access to the virtual machine environment
 - D. Avoiding backup procedures for the virtual machines
- 39. Which command-line utility in Windows Server can be used to display the current network paths along with their associated metrics?
 - A. ipconfig
 - B. netconfig
 - C. route print
 - D. ping

40. Which one of the following is a metric for monitoring network traffic on a server?

- A. Memory usage
- B. Disk usage
- C. Packet loss
- D. Processor architecture

(2 marks)

(2 marks)

(2 marks)

(2 marks)

(2 marks)

(2 marks)

- 41. What type of server acts as a bridge between clients and other servers, often utilised to enhance network security and performance?
 - A. Bastion server
 - Β. Middleware server
 - C. Application server
 - D. Proxy server

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- 42. Internet Protocol version 6 (IPv6) is the next-generation IP addressing protocol designed to replace IPv4. Which one of the following statements justifies transition to IPv6?
 - IPv6 uses longer addresses for enhanced network security A.
 - Β. IPv4 addresses are becoming scarce and limited in availability
 - C. IPv4 does not support mobile device connectivity effectively
 - D. IPv6 addresses are simpler to configure than IPv4 addresses
- 43. The main purpose of using dynamic IP addresses in a Windows Server production network, regarding configuration and usage is to
 - A. increase the overall security of the network infrastructure
 - Β. limit network traffic by reducing the number of devices
 - C. allocate fixed IP addresses to critical devices permanently
 - D. simplify the management of IP addresses within the network
- 44. Your organisation depends on a critical CRM application hosted on Windows Server. To prevent downtime and 🗸 ensure continuous access, you need to implement a solution that maintains application availability even during server WWW.Cho failures. High availability for a critical application in Windows Server can be enabled by_
 - A. enabling the Hyper-V feature
 - setting up a VPN B.
 - C. configuring Failover Clustering
 - D. configuring a DNS server
- 45. Which one of the following statements demonstrates how cable quality affects data transmission speeds and network reliability in a windows server environment?
 - A. Cables with thicker insulation are more flexible and easier to use
 - B. High-quality cables reduce interference and signal loss
 - C. Lower-quality cables always provide faster data transfer rates
 - D. All cables perform equally well in any network setup
- 46. Subnetting enables efficient allocation of IP addresses, better network organisation and increased security. What factor should you take into account when designing subnets?
 - A. Number of hosts required per subnet
 - Β. Speed of the internet connection
 - C. Geographic location of users
 - D. Topology of the computer network

47. Which one of the following commands can be used in PowerShell to display the currently logged-in user?

- A. ps
- Β. dir
- C. pwd
- whoami D.

(2 marks)

(2 marks)

(2 marks)

(2 marks)

(2 marks)

(2 marks)

48.	 Which one of the following policies secures the Windows Server by specifying the number of min after two unsuccessful login attempts before further attempts are allowed? A. Account lockout threshold B. Account lockout duration C. Reset account lockout after D. Maximum password age 	nutes that must pass (2 marks)
49.	 Which one of the following protocols is primarily used for sending emails from a mail server? A. Internet Message Access Protocol (IMAP) B. Post Office Protocol version 3 (POP3) C. Simple Mail Transfer Protocol (SMTP) D. File Transfer Protocol (FTP) 	(2 marks)
50.	 What benefit does Redundant Array of Independent Disks (RAID) offer in server storage? A. Provides data redundancy and improves performance B. Reduces latency in network communication C. Increases data transfer speeds for cloud storage D. Replaces SAN for high-performance applications 	(2 marks)
	Chante Charte	



DIPLOMA IN COMPUTER NETWORKS AND SYSTEMS ADMINISTRATION (DCNSA)

LEVEL II

WINDOWS SERVER ROLES AND FEATURES

TUESDAY: 20 August 2024. Morning Paper.

This paper consists of fifty (50) Multiple Choice Questions. Answer ALL questions by indicating the letter (A, B, C or D) that represents the correct answer. Each question is allocated two (2) marks.

- 1. Which role in a windows server is responsible for managing and deploying server images and programs to networked devices?
 - A. DHCP services
 - B. Windows Deployment Services (WDS)
 - C. File and Storage Services
 - D. Remote Desktop Services
- 2. In the context of windows server environment, which one of the following statements **BEST** describes purpose of Remote Server Administration Tools (RSAT)?
 - A. To deploy server images and programs to networked devices
 - B. To provide a virtualisation platform for running multiple virtual machines
 - C. To allow administrators to manage roles and features on a remote Windows Server
 - D. To provide file storage and sharing services
- 3. Mary wants to choose a Windows server edition for a small business with up to 25 users. Which one of the following edition would you recommend?
 - A. Windows Server Standard
 - B. Windows Server Datacenter
 - C. Windows Server desktop experience
 - D. Windows Server Essentials
- 4. What is the purpose of a checkpoint as used in Hyper-V technology?
 - A. A backup of the physical server
 - B. A snapshot of the VM state at a specific point in time
 - C. Moving running VMs from one physical host to another
 - D. To enable dynamic memory allocation
- 5. In the context of Active Directory (AD), which one of the following is a container used to organise objects within a domain?
 - A. Organisational Unit
 - B. Forest
 - C. Workgroup
 - D. Tree
- 6. Which one of the following is a critical consideration when acquiring a Windows Server license?
 - A. The appearance of the software packaging
 - B. Number of Client Access Licenses (CALs) required
 - C. Availability of a printed user manual
 - D. Popularity of the software on social media

(2 marks)

Time Allowed: 2 hours.

(2 marks)

(2 marks)

(2 marks)

(2 marks)

7.	servers A.	What Windows Server feature encrypts data transmitted over the network, securing communication between servers and clients?A. BitLocker Drive EncryptionB. Windows Defender Firewall			
	ь. С.	Network Policy and Access Services			
	D.	Secure Socket Layer Encryption	(2 marks)		
8.	Which A.	one of the following is a primary benefit of using cloud-based backup solutions? Increased local storage utilisation			
	B.	Improved backup and restore performance for local systems			
	C.	Offsite storage providing disaster recovery capabilities			
	D.	Simplified network configuration	(2 marks)		
9.	services		lications and		
	A.	Kernel			
	В. С.	User Mode Hardware Abstraction Layer (HAL)			
	C. D.	System Services	(2 marks)		
10.		ype of group in the Active directory is used primarily to allow emails to be sent to a group of e email address, simplifying communication within organisations distribution lists? Security Group	people using		
	В.	Global Group			
	C. D.	Domain Local Group Distribution Group	(2 marks)		
	D.	Distribution Group	(2 marks)		
11.	What is A. B.	s the MOST important consideration when purchasing network security solutions for windows Compatibility with existing Windows Server roles and features Number of lights on the front panel of the security device	server?		
	C.	Colour and design of the security device			
	D.	Availability of an audio alert system	(2 marks)		
12.	Which A.	one of the following benefits of server virtualisation makes it easier to add more virtual machin Flexibility	nes?		
	В.	Adaptability			
	C.	Scalability			
	D.	Resource Optimisation	(2 marks)		
13.	A.	one of the following documents should you check before purchasing a windows server softwar Software installation guide	e upgrade?		
	В. С.	End User License Agreement Hardware warranty document			
	D.	Physical media cover design	(2 marks)		
14.	Which A.	one of the following utility can be used to partition disks in a windows server? Disk Cleanup			
	В.	Disk Defragmenter			
	C.	Disk Management			
	D.	Disk Quotas	(2 marks)		
15.	overwh	technique is used to distribute network traffic across multiple servers to ensure no singuelmed?	gle server is		
	A.	Clustering			
	В. С.	Load Balancing Caching			
	D.	Fragmentation	(2 marks)		

16.	long	th type of server allows users to refer to network computers by using easy-to-remember name series of numbers?	es instead of a
	А.	AD	
	B.	DHCP	
	C. D.	SMTP DNS	(2 marks)
	D.		$(2 \operatorname{IIIdrKS})$
17.		need to set up a web server to host your company's website. Which feature of Windows Servor this purpose? DNS Server	ver would you
	B.	DHCP Server	
	C.	IIS Server	
	D.	File and Storage Services	(2 marks)
18.	A.	h policy specifies the complexity criteria for server passwords in a windows environment? Network policy	
	B.	Group Policy	
	C. D.	Server Policy	(2 manles)
	D.	Security Policy	(2 marks)
19.		th term is used in server administration to refer to the act of allowing specific staff to be r fic tasks? Authorisation	esponsible for
	В.	Conformity	
	С.	Delegation	
	D.	Collaboration	(2 marks)
20.	What	is the function of a server name in a network?	
20.			Ye.
	А. В.	Assign IP addresses	, ^{00.}
	ь. С.	Manage user accounts Configure firewall rules	hol
	C. D.	Identify a specific server	(2 marts)
	D.	Identify a specific server	(2 marks)
21.		h port number is typically used for HTTP web traffic in a server?	
	Α.	80	
	B.	443	
	C.	22	(2, 1)
	D.	53	(2 marks)
22.	What	is the principal objective of integrating proxy server software into network infrastructure?	
	А.	Managing web content and blogs	
	В.	Facilitating email communication within the organisation	
	C.	Hosting dynamic web applications	
	D.	Enforcing access controls and content filtering policies	(2 marks)
23.	A.	n installing a new windows server for a small business, what should be the first priority during s User profiles	setup?
	В.	Shared folders	
	C.	Initial server settings	
	D.	Printer configurations	(2 marks)
24.	The f	eature in Server Manager that allows monitoring server performance is called	
	А.	Dashboard	
	В.	Switch Manager	
	C.	Server Manager	
	D.	Virtual Switch	(2 marks)
25.		t is a computing storage management technique that dynamically assigns storage space to seal machines (VMs). RAID	ervers, apps or
	В.	NAS	
	C.	Virtualisation	
	D	Thin provisioning	(2 marks)

D. Thin provisioning

(2 marks) DN23 Page 3 Out of 6

	C.	multiple processors (CPUs)	
	D.	large amounts of memory (RAM)	(2 marks)
27.		Network Operating System (NOS) should function correctly across different operating syst twork protocols and standards to ensure interoperability with different types of netw	
	softw	are. This network characteristic is referred to as	
	A.	extendibility	
	В.	portability	
	C.	scalability	
	D.	compatibility	(2 marks)
28.	From accou	a system administration perspective, which one of the following is a primary factor whe ints?	n setting up a user
	A.	User roles and responsibilities	
	В.	Password complexity requirements	
	C.	Account deletion procedures	
	D.	Authentication method selection	(2 marks)
29.	variou	Company is setting up its network infrastructure and needs to designate specific serve us services efficiently. The Company wants a server role that manages user authentication n a Windows Active Directory domain. Which option meets this requirement?	
	А.	File Server	
	B.	Web Server	
	C.	Domain Controller	<i></i>
	D.	Database Server	(2 marks)
30.		h Windows Server installation option provides a minimalistic version without a GUI?	
	А. В.	Server Core	
	ь. С.	Desktop Experience Nano Server	
	C. D.	Standard Edition	(2 marks)
31.	What	is the name for a collection of one or more domains that share a common root domain	and a continuous
		space, as used in the Active Directory structure?	
	A.	Root	
	B.	Domain	
	C.	Forest	
	D.	Tree	(2 marks)
32.		n configuring a DHCP server, what considerations could be taken into account to ensure e	efficient IP address
		gement and minimise network downtime?	
	А.	Setting up strict access controls for network resources	
	B.	Configuring DNS server addresses for automatic updates	
	C.	Implementing IP address ranges and lease durations	
	D.	Enforcing encryption protocols for data transmission	(2 marks)
33.	-	purpose of authentication in account management in window server is to	·
	A.	specify user permissions	
	B.	verify the identity of the user	
	C.	determine the account creation date	(2
	D.	facilitate account deletion	(2 marks)
34.		h one of the following actions is necessary when creating a new file in a file system?	
	A.	Read permission	
	B.	Write permission	
	C.	Execute permission	
	D.	Delete permission	(2 marks)

The ability to replace failed disk drives without interrupting server operation feature of server hardware is known

26.

as ____

А. В. hot-swappable disk drives

redundant power supplies

35.	Which approach is used to allow several people to access and modify a file at the same time?A. File lockingB. File compression	
	C. File encryptionD. File synchronisation	(2 marks)
36.	 Which of the following is NOT a feature of server core installation? A. Full-fledged desktop experience similar to Windows client operating systems B. Command-line interface (CLI) for configuration and management using PowerShell or Prompt C. Reduced attack surface and resource footprint compared to GUI installation D. Suitable specific server roles such as Active Directory Domain Services, DNS, DHCP at a service of the se	
37.	 What is the MOST important factor to keep in mind when recovering files from a backup after a server A. Increasing file permissions B. Checking file integrity C. Converting file formats D. Compressing file size 	crash? (2 marks)
38.	 Which one of the following is NOT a functionality of an email server? A. Facilitates electronic mail communication between users within and outside the organisation B. Manages email storage, retrieval and delivery according to user preferences and policies C. Ensures email security and compliance with regulatory requirements D. Executes email server-side scripts and applications 	(2 marks)
39.	 What is the primary functionality of a database server in an organisation's IT infrastructure? A. Facilitating electronic mail communication B. Centralised file storage and sharing C. Storing, retrieving and managing structured data D. Hosting websites and web applications 	(2 marks) thop cole
40.	 What type of backup only copies data that has changed since the last backup? A. Incremental Backup B. Full Backup C. Differential Backup D. Mirror Backup 	(2 marks)
41.	 What server software solution would you advise implementing for efficient IP address manage allocation? A. Managing user authentication and centralised identity management B. Dynamically allocating IP addresses to network devices C. Hosting websites and web applications D. Facilitating email communication within an organisation 	gement and (2 marks)
42.	 Which one of the following statements BEST describes the key principle of the 3-2-1 backup rule? A. Three copies of data, on two different media, with one copy offsite B. Three copies of data, on one media, with two copies offsite C. Two copies of data, on three different media, with one copy offsite D. One copy of data, on two different media, with three copies offsite 	(2 marks)

- 43. The process of moving the functions, configurations, data and settings from one server to another is known as
 - A. porting
 - B. extension
 - C. configuration

.

D. migration

44.	A relationship, which you establish between domains that makes it possible for users in one domain to be authenticated by a domain controller in the other domain, is known as			
	A. federation	·		
	B. trust			
	C. delegation			
	D. domain linking	(2 montra)		
	D. domain mixing	(2 marks)		
45.	Which one of the following statements distinguishes a File Server and a Print Security 2012 and a Print	erver in a network environment?		
	A. Both File Server and Print Server manage file sharing			
	B. Both File Server and Print Server manage network security			
	C. Print Server manages file storage, while File Server manages print jobs			
	D. File Server manages file storage, while Print Server manages print jobs	s (2 marks)		
46.	What is the network address for the IP address is 192.168.10.35 with a subnet m	nask of 255.255.255.224?		
	A. 192.168.10.0			
	B. 192.168.10.32			
	C. 192.168.10.64			
	D. 192.168.10.128	(2 marks)		
47.	Which one of the following is NOT a type of a network server?			
. / .	A. Blade server			
	B. Print server			
	C. Application server			
	D. Domain controller	(2 marks)		
		(2 marks)		
48.	How do integrating on-premises servers with cloud services enhance an organis	ation's IT infrastructure?		
	A. Increasing server hardware costs			
	B. Enhancing scalability and flexibility			
	C. Reducing network security			
	D. Decreasing data storage capacity	(2 marks)		
49.	What is a critical component of a disaster recovery plan?			
	A. Using virtualisation technology			
	B. Purchasing software from known sources			
	C. Regular data backups			
	D. Frequent hardware upgrading	(2 marks)		
50.	Which feature of Windows Server could you use to monitor and manage server	CPU and memory usage?		
	A. File Server Resource Manager	,		
	B. Windows Event Viewer			
	C. Task Manager			
	D. Performance Monitor	(2 marks)		



DIPLOMA IN COMPUTER NETWORKS AND SYSTEMS ADMINISTRATION (DCNSA)

LEVEL II

WINDOWS SERVER ROLES AND FEATURES

TUESDAY: 23 April 2024. Morning Paper.

Answer ALL questions by indicating the letter (A, B, C or D) that represents the correct answer. This paper is made up of fifty (50) Multiple Choice Questions. Each question is allocated two (2) marks.

- 1. Which one of the following **BEST** describes why servers are required for centralised data backup and storage?
 - A. Centralised storage supports database sharing in a network
 - B. Centralised storage enhances data accessibility
 - C. Workstations automatically handle data storage and backup
 - D. Servers are only necessary for small networks
- 2. Servers are intended to give enterprise-level management, scalability and security features to businesses and organisations. What is the primary purpose of using disk quotas on a server?
 - A. To allocate specific amounts of disk space to users, groups or folders
 - B. To prevent unauthorised access to files and folders
 - C. To improve server performance by optimising disk usage
 - D. To encrypt sensitive data stored on the server
- 3. In order to prevent data loss, which of the following **BEST** describes the procedure for creating an exact replica of data?
 - A. Replication
 - B. Redundancy
 - C. Mirroring
 - D. Cloning
- 4. The type of network testing technique involves measuring the time it takes for a packet to travel from the source to the destination and back is known as ______.
 - A. Bandwidth testing
 - B. Latency testing
 - C. Throughput testing
 - D. Ping testing
- 5. What is the principle of least privilege in relation to user account management?
 - A. Restricting users to only the permissions they need
 - B. Granting users the maximum possible access available
 - C. Assigning random permissions to users
 - D. Ignoring user permissions
- 6. What is the main purpose of file restoration and recovery in a server?
 - A. Permanently deleting unwanted files
 - B. Optimising disk space usage
 - C. Preventing unauthorised access to files
 - D. Recovering lost or corrupted data

(2 marks)

(2 marks)

(2 marks)

(2 marks)

(2 marks)

(2 marks)

Time Allowed: 2 hours.

7.		e name of utility that monitors and optimises Windows server's performance?	
		irewall	
		ctive Directory	
		erformance Monitor	(2 1
	D. Po	owerShell	(2 marks)
8.	In relation	to traditional server deployments, what is the key advantage of Hyper-V?	
		icreased hardware costs	
	B. SI	lower data processing speeds	
		imited support for multiple operating systems	
	D. E	nhanced server flexibility and resource utilisation	(2 marks)
0	I., . W., 1.		
9.		bws server context, what is the main purpose of Disk Part command?	
		efragmenting hard drives Ianaging disk partitions and volumes	
		canning for malware	
		reating backup images	(2 marks)
	D. C	reading backup mages	$(2 \operatorname{Ind} \operatorname{KS})$
10.	A tangible	piece of hardware in a server where data is stored through hard disk drive (HDD) or soli	d-state drive
	(SSD) is ki		
		ogical drive	
		artition	
		hysical drive	
	D. A	llocation unit	(2 marks)
11.	What is the	e primary purpose of account lockout policies?	
		o restrict access to user accounts	
		o increase user privileges	
		o authenticate the server access	
		o create security incidents	(2 marks)
1.0			.1 1 10
12.		hnology is essential for ensuring compatibility between a server's storage devices and the mo	therboard?
		SB-C hunderbolt	
		ATA	(2 marks)
	D. 5.		(2 marks)
13.	Why is role	e-based access control in server settings so important to implement?	
10.	•	o disable user accounts for the system users	
		o restrict access based on job responsibilities	
		o increase server speed	
		o overlook security measures	(2 marks)
1.4	TT 71 (1)		.1 1
14.		te technical term for the automated process of switching to redundant components or p	aths when a
		reakdown is detected?	
		oad balancing	
		ailover	
		andwidth throttling Tirtualisation	(2 marks)
	D. V	intualisation	(2 marks)
15.	Select a sc	enario where the use of crossover cables is essential for connecting two devices directly.	
	A. C	onnecting a switch to a router	
	B. C	onnecting a workstation to a switch	
	C. C	onnecting two switches together	
	D. Ig	noring the need for direct device connections	(2 marks)
16	Which are	of the following describes the effects of NOT applying disk quotes in a network and and	nt?
16.		of the following describes the effects of NOT applying disk quotas in a network environme oss of data in case of a black-out	III.?
		ncreased risk of storage misuse, leading to potential issues	
		isk quotas only apply to external drives	
		puotas are unnecessary for efficient storage management	(2 marks)
	- · · · · · · · · · · · · · · · · · · ·	······································	()

17.	Server logs are basically used to monitor and troubleshoot server issu and performance of the server. Why is regular server log monitoring	
	A. To identify and respond to security incidents	1
	B. To authenticate the legitimate users logging to the system	
	C. To remove the unnecessary files from the computer system	
	D. To authorise the system access and assign privileges	(2 marks)
18.	What is the primary purpose of Active Directory Federation Services	(ADFS) in a network environment?
	A. Enhancing server aesthetics	
	B. Centralised user authentication and Single Sign-On (SSO)	
	C. Managing file permissions on network sharesD. Optimising network bandwidth usage	(2 marks
19.	With reference to server management tools, what is the MAIN adva	
17.	GUI-based server management tools?	inage of using towershell over the tradition
	A. It has a high learning curve for system administrators	
	B. More efficient for bulk operations and complex tasks	
	C. Slower execution of tasks	
	D. Less flexibility in scripting	(2 marks)
20.	What is the primary objective of the Windows server service known a	as "Windows Update"?
	A. Manage user accounts	
	B. Provide system backup	
	C. Install security patches	
	D. Configure network settings	(2 marks)
21.	Which Windows Server feature provides a distributed file system t servers?	hat allows files to be accessed from multip
	A. BitLocker encryption options	
	B. File Server Resource Manager (FSRM)	
	C. BitLocker Drive Encryption	A.
	D. Distributed File System (DFS)	(2 marks)
22.	Which optimisation technique involves combining multiple physical resource utilisation?	servers into a single virtual server to improv
	A. Load balancing	
	B. Virtualisation	
	C. Clustering	
	D. Redundancy	(2 marks
23.	In what way does network security benefit from active directory in a	windows server environment?
	A. By providing antivirus protection to protect the users	
	B. By encrypting network traffic to conceal the meaning of dat	a
	C. By managing user access and permissions	(2 1
	D. By preventing hardware failures	(2 marks
24.	Which one of the following statements BEST describes the primary pA. To enhance the graphical user interface for human computer	
	B. To provide additional functionality to the operating system	moraouon
	C. To improve system security to minimise illegitimate users a	ccess
	D. To control and manage the hardware resources	(2 marks)
25.	Why is it necessary to monitor and adjust firewall rules on a regular b	basis while utilising a Windows server?
	A. To create security incidents	~
	B. To increase server speed	
	C. To keep the system administrators busy	
	D. To adapt to changing network threats	(2 marks)
26.	What is a key consideration when determining the appropriate server	acquisition method for an organisation?
	A. Server color and design aesthetics	
	B. The latest server brand in the market	
	C. The organisation's specific requirements and budget constrained for the sector of the sector.	
	D. Availability of gaming features in the server	(2 marks)
		DN23 Page 3

- 27. An essential component of preserving security, access control and the smooth operation of an IT infrastructure is server user account management. Which procedure entails deactivating user accounts or blocking their access to resources?
 - A. Setting usernames and passwords
 - B. Disabling unnecessary accounts
 - C. Deleting unnecessary accounts
 - D. Delegating unnecessary accounts
- 28. In a hierarchical network design, where is a switch normally located to connect end-user devices such as workstations?
 - A. At the core
 - B. At the distribution layer
 - C. At the access layer
 - D. At the edge
- 29. When a workstation wishes to communicate with a device on a separate network, what function does a router serve?
 - A. It determines the optimal path for data between networks
 - B. It manages local device connections
 - C. It provides centralised services to other devices
 - D. It forwards data within the same network
- 30. In what way does a DNS server facilitate internet communication?
 - A. By providing internet speed optimisation
 - B. By encrypting data during transmission
 - C. By managing email services to prevent email phishing
 - D. By translating domain names to IP addresses
- 31. In a Windows Server context, network management entails managing and keeping a close watch on the services and resources available on the network. Choose the situation from the list below where network administration requires a DHCP server.
 - A. Small home network with static IP addresses
 - B. Large office network with multiple devices
 - C. Single-user computer system
 - D. Public Wi-Fi hotspot with limited users
- 32. In Active Directory Domain Services, what is the major purpose of a domain controller?
 - A. File storage
 - B. Web hosting
 - C. User authentication
 - D. Provides email services
- 33. What does an organisational unit (OU) in Active Directory mean?
 - A. It is a container for organising objects within a domain
 - B. It is a security protocol for data encryption
 - C. It is a specialised DNS record
 - D. It is a type of user account
- 34. Which one of the following **BEST** exemplifies the role of a centralised print server in managing print queues and resources?
 - A. Increased print job processing times and spooling
 - B. Improved internet speed and connectivity
 - C. Manage the print layouts and the number of copies required
 - D. Efficient management of print jobs and printer resources (2 marks)
- 35. Which feature makes it possible to transfer an active virtual machine across Hyper-V hosts without experiencing any downtime?
 - A. Live Migration
 - B. Snapshot
 - C. Quick Migration
 - D. Checkpoint

(2 marks)

36.	Under what circumstances would it be advantageous to use PowerShell scripts for server ma	nagement?		
	A. Only for basic file operations	e		
	B. When a graphical user interface is preferred			
	C. When automating repetitive administrative tasks			
	D. Only for troubleshooting network issues	(2 marks)		
37.	What role does a virtual disk play in the physical-to-virtual conversion process?			
	A. To increase network speed			
	B. To store virtual machine files			
	C. To provide additional RAM	(2, 1)		
	D. To enhance graphics performance	(2 marks)		
38.	What does the documentation for network testing serve as its MAIN objective?			
	A. To troubleshoot network issues			
	B. To design a network architecture			
	C. To document network security policies			
	D. To install network equipment	(2 marks)		
39.	Which document outlines the requirements for finishing network testing successfully?			
57.	A. Network Diagram			
	B. Test Case			
	C. Test Plan			
	D. Acceptance Criteria	(2 marks)		
		(2 marks)		
40.	Which command line interface (CLI) script will use the ping command to contin	uously check network		
	connectivity?			
	A. loop ping www. gmail.com			
	B. ping -t www.gmail.com	-0.¥°		
	C. ping -n 1000 www. gmail.com			
	D. continuous ping www. gmail.com	(2 marks) 100 ^{2, co) * co}		
41.	Which management tool gives network administrators the ability to centrally monitor and m	anage printers?		
	A. Device Manager			
	B. Print Queue			
	C. Print Server			
	D. Printer Preferences	(2 marks)		
42.	Choose a scenario where the use of static IP addresses on workstations is more advantageous than using dynamic			
	IP addresses from the scenarios below.	5 7		
	A. Ignoring the need for IP addresses on workstations			
	B. Relying solely on routers for IP address assignment			
	C. Managing a dynamic and frequently changing network environment			
	D. Ensuring consistent and predictable IP addresses for specific workstations	(2 marks)		
43.	Which technology enables network printers to receive documents printed from mobile devic	es for server users?		
10.	A. AirPrint			
	B. Bluetooth			
	C. Near Field Communication (NFC)			
	D. Wi-Fi Direct	(2 marks)		
44.	What is the ACCURATE term for the process of partitioning a hard disk into multiple logic	al starage units?		
	A. Formatting	at storage units.		
	B. Disk Shrinking			
	C. Partitioning			
	D. Quota Management	(2 marks)		
4.5		· /		
45.	In data storage management, what is meant by "data deduplication"?			
	A. Encrypting stored data P. Badwing reduct carries of data to save store as space			
	B. Reducing redundant copies of data to save storage spaceC. Managing RAID configurations			
	D. Managing mirroring configurations	(2 marks)		
	D. Managing minoring configurations	(2 marks)		

46.	What	is the name given to the alphanumeric code that a server uses to verify and activate its software	license?		
	A.	Digital certificate			
	В.	Server name key			
	C.	Private key			
	D.	Product key	(2 marks)		
47.	Whic	h one of the following BEST demonstrates the effects of deactivating the firewall on a server?			
	А.	Decline in the server processor performance			
	В.	Increased vulnerability to unauthorised access			
	С.	Firewalls are automatically managed by the network			
	D.	Routers automatically secure servers without firewalls	(2 marks)		
48.	What	is the purpose of a load balancer in server configuration?			
	А.	Managing user authentication			
	В.	Allocating IP addresses to devices			
	C.	Controlling server access permissions			
	D.	Distributing network traffic across multiple servers	(2 marks)		
49.	Why should you consider the impact on server functionality while eliminating role services?				
	Α.	To increase server performance			
	В.	To free up storage space			
	С.	To avoid potential disruptions			
	D.	To simplify server management	(2 marks)		
50.	In ser	ver configuration, the Basic Input/output System (BIOS) is used for which of the following reason	ons?		
	А.	Manage network connections			
	В.	Control input devices like keyboard and mouse			
	С.	Initialise hardware components during startup			
	D.	Manage server applications	(2 marks)		
		Control input devices like keyboard and mouse Initialise hardware components during startup Manage server applications			

DIPLOMA IN COMPUTER NETWORKS AND SYSTEMS ADMINISTRATION (DCNSA)

LEVEL II

WINDOWS SERVER ROLES AND FEATURES

TUESDAY: 5 December 2023. Morning Paper.

Answer ALL questions by indicating the letter (A, B, C or D) that represents the correct answer. This paper is made up of fifty (50) Multiple Choice Questions. Each question is allocated two (2) marks.

- 1. Which of the following controls access to network resources within a Windows domain handles network security and authenticates user accounts?
 - A. File Server
 - B. Print Server
 - C. DHCP Server
 - D. Domain Controller
- 2. Windows server roles and features are software components that give servers the ability to carry out particular tasks. In what ways are "server roles" and "server features" different?
 - A. Roles are used for client computers, while features are for servers
 - B. Roles are optional, while features are mandatory
 - C. Roles provide specific server functionality, while features add supplementary functionality
 - D. Roles are used in Windows Server, while features are used in Windows Desktop
- 3. Mary Wanyamah a newly recruited intern was instructed by her supervisor to free up storage space, improve computer's performance, and maintain a more organised file system. Which of the following can be used to help Mary complete the task given to her?
 - A. Storage sense
 - B. Fslogix
 - C. Disk cleanup
 - D. Chkdsk
- 4. System administrators, IT teams and auditors must have well-organised network testing documentation in order to comprehend, manage and enhance the network architecture. Which of the following components of network testing documentation provides guidance to end users on how to use Virtual Private Networks (VPNs), connect to the network and adhere to security standards?
 - A. Troubleshooting Guides
 - B. Security Policies and Procedures
 - C. Inventory of Network Equipment
 - D. User Training Documentation
- 5. A computer network's performance, effectiveness and general quality can be improved through a process known as
 - A. Network Monitoring
 - B. Network Documentation
 - C. Network Optimisation
 - D. Network Virtualisation
- 6. The process of continuously tracking and analysing server performance and resource utilisation to ensure optimal operation is referred to as ______.
 - A. Server monitoring
 - B. Performance optimisation
 - C. Server troubleshooting
 - D. Server patching

(2 marks)



(2 marks)

(2 marks)

Time Allowed: 2 hours.

(2 marks)

(2 marks)

- 8. Which Windows server role is responsible for allocating IP addresses to network clients and administering them? A. DNS Server DHCP Server Β. C. VPN Server D. Web Server (2 marks) 9. Which of the following is a characteristic of a Network Operating System (NOS)? Designed for single-user devices A. В. Emphasises graphics and multimedia capabilities С. Supports multiple concurrent users and resources sharing D. Primarily used for gaming (2 marks) 10. Which of the following is a key component of Active Directory that allows user profiles and settings to follow users as they move between different computers in the network? А. **Roaming Profile Server** В. File Profile Server C. Print Profile Server D. **DNS Profile Server** (2 marks) 11. When a file server role is deployed within an organisation, which of the following could present a challenge? Data storage optimisation A. B. Data security and access control C. Improved data sharing Simplified data backup D. (2 marks) In a Network Operating System, what is the primary goal of resource sharing? 12. Enhancing graphics performance A. В. Improving system security C. Facilitating collaboration and data sharing D. Running multiple gaming applications (2 marks) 13. numbers? A. Switch Β. Router C. Modem Firewall D. (2 marks) 14. Users are able to interact with and run programs on their desktop or laptop computers thanks to desktop operating systems, which operate as a mediator between the computer's physical parts and software applications. Which of the following is **NOT** a typical function of a desktop operating system? A. Running web servers Β. Managing files and folders С. Providing a graphical user interface D. Running office productivity software (2 marks) 15. Which of the following can be a potential benefit of implementing a load balancing server role? A. Decreased network redundancy В. Reduced data storage costs C. Slower network performance D. Improved server uptime and availability
- 7. Enterprise environments refer to the complex and often large-scale computing environments within organisations. Which of the following operating systems is **BEST** for use in enterprise environments?
 - A. Windows 10
 - В. macOS
 - C. Windows Server
 - D. Linux Mint

Which of the following can be used to separate and filter network traffic based on routed protocol and port

(2 marks)

- 16. Which of the following is a network tool that can verify a host's reachability and calculate the amount of time it takes for data to travel from its source to its destination and back? A. Ping В. Cable tester C. Protocol analyzer D. DHCP server (2 marks) 17. Which of the following is **NOT** a key component virtualisation? A. Hypervisor B. Host operating system C. Cloud D. Management Interface (2 marks) 18. Which of the following **BEST** describes the procedure of testing individual hardware or software components to make sure they work properly and adhere to predetermined standards? A. Integration testing В. Component testing C. End to end testing D. Component unit (2 marks) 19. Which of the following is a feature that can be utilised in a Windows server environment to automate account management across a network of servers and workstations? A. Security policy В. Group memberships C. Lockout policy D. Group policy (2 marks) 20. Which factor is important when selecting server hardware for a data-intensive application? A. Server processor speed B. Server brand popularity C. Server software version (2 marks) D. Server vendor support 21. Which of the following is required in a Windows Server environment to connect network cables to network devices such as switches, routers, Network Interface Cards (NICs) and servers? A. USB Β. **RJ-45** С. HDMI D. VGA (2 marks) 22. Server acquisition involves careful consideration of various factors to ensure that the selected servers meet the business's needs and provide value for the investment. In server acquisition, what does "scalability" refer to? A. The server's ability to be compatible with other hardware Β. The server's storage capacity for data and applications C. The server's processing capability of tasks given D. The server's ability to handle increased workloads (2 marks) Which factor is crucial when selecting server hardware for a high-availability environment? 23. A. Redundancy and fault tolerance features Β. The server's primary storage capacity C. The server's hardware portability D. The server's secondary storage capacity (2 marks) 24. Within a networked environment, Active Directory performs a number of essential tasks. What comes first in the configuration of Active Directory? Installing a web server A. Creating organisational units (OUs) Β. С. Installing a database server
 - D. Installing a domain controller

 What is the primary function of a Domain Name System (DNS) server in a network? A. Assigning IP addresses to network devices B. Providing email services C. Translating domain names to IP addresses D. Filtering web content 	(2 marks)
Which of the following is a crucial consideration when choosing server software?A. The software's compatibility with the hardwareB. The server's physical dimensions	(2 marks)
D. The server's processing power	(2 marks)
 What does the term "disk formatting" mean in relation to data storage? A. Cleaning the physical surface of the disk B. Preparing the disk for data storage by creating a file system C. Defragmenting the disk to optimise the storage and retrieval of data D. Encrypting the data on the disk for security purposes 	(2 marks)
 What does Hyper-V used for in a server environment running Windows? A. High-performance gaming B. For web hosting C. For file sharing D. For virtualisation 	(2 marks)
 What is the purpose of granting "Permissions" in account management? A. To create user accounts B. To verify user identity C. To control access to resources 	
	(2 marks)
 which of the following others eminanced security, encerve storage management, and the capacity is enormous volumes and files, making it a crucial part of business and server settings? A. NTFS B. HFS+ C. EXT4 D. FAT32 	(2 marks)
 Which type of virtualisation enables the operation of several virtual machines (VMs), each running a operating system on a single physical host? A. Emulation B. Containers C. Type 1 Hypervisor D. Type 2 Hypervisor 	(2 marks)
 What is the function of role-based access control in Windows Server? A. It controls the server's time settings B. It assigns permissions based on user roles C. It manages Active Directory services 	(2 marks)
 Why are disk quotas used in data storage management? A. To limit the number of files on a disk B. To restrict the types of files that can be stored on a disk C. To automate disk defragmentation D. To limit the amount of disk space a user can consume 	(2 marks)
 Which of the following describes the essential element of the operating system that controls system resour with hardware interfaces and acts as the basis for running software programs? A. Hypervisor B. BIOS C. Kernel D. Container 	cces, deals (2 marks)
	 A. Assigning IP addresses to network devices B. Providing enail services C. Translating domain names to IP addresses D. Filtering web content Which of the following is a crucial consideration when choosing server software? A. The software's compatibility with the hardware B. The server's physical dimensions C. The server's redundancy and reliability D. The server's processing power What does the term "disk formatting" mean in relation to data storage? A. Cleaning the physical surface of the disk B. Preparing the disk to rdata storage by creating a file system C. Defragmenting the disk to reduits the storage and retrieval of data D. Encrypting the data on the disk for security purposes What does Hyper-V used for in a server environment running Windows? A. High-performance gaming B. For verifu user identity C. To refit sharing D. For virtualisation What is the purpose of granting "Permissions" in account management? A. To create user accounts B. To verify user identity C. To control access to resources D. To edit user information Which of the following offers enhanced security, effective storage management, and the capacity to enormous volumes and files, making it a crucial part of business and server settings? A. NTPS B. Hiffs + C. EXT4 D. FAT32 Which type of virtualisation enables the operation of several virtual machines (VMs), each running a operating system on a single physical host? A. Fundation B. Controls the server's time settings B. It assigns permissions based on user roles C. Type I Hypervisor What is the function of files on a disk B. To restrict the types of files that can be stored on a disk B. To restrict the types of files that can be stored on a disk C. To sut

35.	 In a windows server environment, what happens when a user exceeds their allocated disk quota? A. The user is unable to access any files on the disk B. New files cannot be created, but existing files can still be accessed C. The system automatically deletes the user's oldest files D. The user is prompted to purchase additional disk space 	(2 marks)
36.	 What are snapshots' main purpose in Virtualisation Management (VM)? A. To create new VMs B. To install software C. To allocate more memory to a VM D. To revert a VM to a previous state 	(2 marks)
37.	 Server configuration entails the process of setting up, customising and optimising a server to requirements and perform its intended functions effectively. What is a product key in server configuration. A unique identifier for the server hardware B. A password to access the server remotely C. A license key to activate the server's operating system D. A network protocol used for server communication 	
38.	 Which of the following, when used as a network diagnostic tool, generates a list of every intermed data packets pass through en route to their final destination? A. ipconfig B. ping C. traceroute D. netstat 	diary device that (2 marks)
39.	 What is the recommended frequency for changing server passwords? A. Daily B. Monthly C. Weekly D. As needed, based on security policies 	(2 marks)pi.co.ke
40.	 What is the purpose of using a loopback plug in network testing? A. To measure network bandwidth and latency B. To detect nearby wireless networks C. To assess and resolve issues in network interfaces by emulating a network connection linking to an external apparatus D. To perform network scans for security purpose 	
41.	 Which of the following statement is TRUE on whether it is possible for two servers on the same referses the same name? A. Yes, as long as they have different IP addresses B. Yes, it doesn't matter if they have the same name C. No, server names must be unique within a network D. No, but it is not essential for server operations 	network to share (2 marks)
42.	 What is the role of the Windows Server Update Services (WSUS) as used in a Windows Server environment. A. It centralises the management of Windows updates B. It provides Domain Name System (DNS) services C. It manages user accounts and group policies D. It serves as a web server 	ironment? (2 marks)
43.	 In the context of server configuration, how best can you define the term protocols? A. Steps to be followed to accomplish specific tasks on a server B. Rules and conventions that govern communication in a network C. Security settings for server access D. Passwords used to authenticate use 	(2 marks)
44.	 What command-line tool is used to display a computer's IP settings on a Windows server? A. traceroute B. ping C. ifconfig D. ipconfig 	(2 marks)

DN23 Page 5 Out of 7

B. They are used for server used for virtualisation, install and configure C. They are used for domain resolution and configuring domain settings D. They are used for load balancing (2 marks) 46. What is a potential benefit of using server virtualisation technology? Increased physical server count A. Β. Higher power C. Enhanced resource utilisation D. Decreased scalability (2 marks) 47. In the context of server operating systems, what does a server role entail? A physical location where servers are stored A. В. A specific function that a server performs in a network C. The brand of the server's hardware D. The server's IP address (2 marks)

They are used for identifying specific services and processes on a server

- 48. Network security policies are a set of guidelines and rules that define how an organisation protects its computer systems, networks, and data from security threats and unauthorised access. Which one of the following windows components is used for network security policy?
 - A. Windows Defender
 - B. Windows FirewallC. Windows Antivirus

45.

A.

C. Windows AntivirusD. Windows Security Center

In server configuration, what are ports used for?

- 49. Which of the following is a system monitoring tool that offers comprehensive data on the functionality and resource consumption of the computer, including information on CPU, memory, disk and network activity?
 - A. Event Viewer
 - B. Task Manager
 - C. Resource Monitor
 - D. Performance Monitor
- 50. Which of the following refers to the process of setting up and configuring windows server operating system on a computer or computing device?
 - A. Virtualisation
 - B. Installation
 - C. Fragmentation
 - D. Subnetting

.....

(2 marks)

(2 marks)

Time Allowed: 2 hours.

Answer ALL questions by indicating the letter (A, B, C or D) that represents the correct answer. This paper is made up of fifty (50) Multiple Choice Questions. Each question is allocated two (2) marks.

- 1. A server role is a set of software components that enable a server to perform a specific function for users and other computers in a network. Which server role is responsible for managing and controlling user access to network resources?
 - Database Server A.

TUESDAY: 22 August 2023. Morning Paper.

- В. File Server
- C. Web Server
- D. Domain Controller
- 2. The process of obtaining a server, including the purchase, delivery, and installation of the server is referred to as www.chopi
 - Server acquisition A.
 - В. Server procurement
 - C. Server delivery
 - D. Server distribution
- 3. Which of the following user account types in Windows Server has the highest level of privileges and can perform administrative tasks?
 - Power User A.
 - Standard User В.
 - C. Administrator
 - D. Guest User
- 4. State the name given to the practice of housing privately owned servers and networking equipment in a third-party data center facility which provides the necessary infrastructure, power, cooling, and security while the user maintains control over their hardware and software.
 - Colocation A.
 - Β. PAAS
 - C. Hybrid
 - IAAS D.
- 5. What is the purpose of print queues in Windows Server printer management?
 - They manage the printer hardware A.
 - Β. They provide a graphical interface for printer management
 - They establish network connections for printer sharing C.
 - They store the print jobs until they are printed D.
- 6. Which network testing technique involves measuring the time it takes for a packet to travel from the source to the destination and back?
 - Bandwidth testing A.
 - В. Latency testing
 - C. Throughput testing
 - Ping testing D.

DN23 Page 1 Out of 6

(2 marks)

kasneb DIPLOMA IN COMPUTER NETWORKS AND SYSTEMS ADMINISTRATION (DCNSA)

WINDOWS SERVER ROLES AND FEATURES

LEVEL II



(2 marks)

(2 marks)

(2 marks)

(2 marks)

7.	Which component is responsible for managing the allocation of physical resources to virtual machines?					
	А.	Guest OS				
	В.	Application software				
	C.	Hypervisor				
	D.	BIOS	(2 marks)			
8.	Why is considering management and administration important when selecting a network operating system?					
	А.	It reduces network costs				
	В.	It improves network performance				
	C.	It enhances network security				
	D.	It simplifies network troubleshooting	(2 marks)			
9.	What is the purpose of an access control list (ACL)?					
	A.	To encrypt a file or folder				
	В.	To control who can access a file or folder				
	C.	To compress a file or folder				
	D.	To delete a file or folder	(2 marks)			
10.		Which of the following hypervisors was developed by Microsoft to allow users to run multiple operating systems on				
	-	gle physical server?				
	A.	VMWare				
	B.	Virtual Box				
	C.	Hyper-V				
	D.	KVM	(2 marks)			
11.	What is the purpose of a user profile in Windows Server?					
	A.	To store user-specific settings and preferences				
	В.	To manage user permissions and access levels				
	C.	To authenticate user credentials during logon				
	D.	To track user login history and activity	(2 marks)			
12.	Mana	Managing server rights and privileges is essential for ensuring security, controlling access and maintaining the				
	integr	integrity of server environment. Which privilege allows a user to create, modify, and delete files and folders on a				

- 1 -hop server?
 - A. Read
 - Β. Write
 - C. Execute
 - D. Copy

13. Which of the following is a **BEST** practice for Windows Server administration?

- A. Creating and managing shared resources
- В. Printer sharing
- C. User authentication
- D. Keeping the windows server up to date

14. What is the purpose of a print driver in Windows Server printer management?

- Α. It determines the printing permissions for users
- Β. It enables communication between the printer and the server
- C. It controls the physical printing process
- D. It manages the print spooler service
- 15. A metal frame or enclosure designed to secure house servers, network equipment, and other IT infrastructure components in a data center or server room is called
 - Data center A.
 - В. Server room
 - C. Rack cabinet
 - D. Server farm

16. Which of the following tool is used in Window's server for monitoring and performance optimisation?

- A. PowerShell
- Β. Event Viewer
- C. Firewall
- D. Active Directory

(2 marks) DN23 Page 2 Out of 6

(2 marks)

(2 marks)

(2 marks)

- Server roles are a set of software component that enables servers perform specific functions. Select the server role that is responsible for providing remote access to servers and other computers on a network. A. **Remote Desktop Services** HTTP server Β.
 - Anydesk Software С.

What is a snapshot in the context of Windows Server?

A point-in-time copy of the server's data

A system restore point

A backup of the entire server

A virtual machine template

- D. Web server
- 19. Which of the following command is used to manage services and processes in Windows server environment?
 - defrag A.

17.

18.

A. В.

C.

D.

- Β. diskpart
- С. taskmgr
- D. pathping
- 20. Web servers are used to host websites and deliver contents to clients over the internet. Which of the following is an example of a web server?
 - Apache Timcat A.
 - B. Apache HTTP Server
 - C. Apache Tomcat
 - D. Apache Spark
- 21. Which protocol is commonly used for network printing in Windows Server environments?
 - **SNMP** A.
 - B. TCP/IP
 - C. FTP
 - D. HTTP
- (2 marks) 22. Selecting a Network Operating System (NOS) can be a daunting task, as there are many factors to consider. Which of the following is the most important factor to consider when selecting a network operating system?
 - A. Security
 - B. Hardware compatibility
 - C. NOS Performance
 - D. Software compatibility
- 23. The delivery of computing services, such as servers, storage, and applications, over the internet is called
 - A. Server virtualisation
 - B. Client-server model
 - C. Cloud computing
 - D. Distributed systems
- 24. The ability of a server or system to handle increasing workloads and accommodate growth in terms of users, data or traffic to meet the growing demand is known as
 - Portability A.
 - Scalability Β.
 - C. Optimisation D. Compatibility
- 25. What is the purpose of conducting periodic security audits on organisation's servers?
 - A. To enhance resource utilisation
 - В. To optimise network infrastructure
 - C. To identify unauthorised access
 - D. To balance the load across servers

(2 marks)

- C. C:\Windows\System32\Users D. C:\Windows\System32\System
- 27. Which Windows Server feature allows administrators to automatically configure user accounts based on predefined templates?
 - A. User Account Control (UAC)

C:\Windows\System32\NTDS

C:\Windows\System32\Config

B. Group Policy

А. В.

- C. Active Directory Federation Services (ADFS)
- D. Windows Firewall
- 28. Which Windows Server feature allows for the automatic deployment of operating systems to networked computers?A. Remote Desktop Services
 - B. Group Policy
 - C. Windows Deployment Services
 - D. DHCP Server
- 29. Which of the following command is used to display protocol statistics and current TCP/IP connections using NetBIOS over TCP/IP in a Window server?
 - A. netstat
 - B. nbstat
 - C. arp
 - D. nslookup
- 30. What is the term used for the process of creating a new instance of a virtual machine from a predefined template?
 - A. Provisioning
 - B. Cloning
 - C. Migration
 - D. Replication
- 31. Virtual machine migration is the process of moving a virtual machine from one host to another. The type of migration where a virtual machine is moved from one host to another while the virtual machine is running is called
 - A. Real time migration
 - B. Hot migration
 - C. Cold migration
 - D. Live migration
- 32. Which of the following is **NOT** a built-in Windows user group?
 - A. Administrators
 - B. Editors
 - C. Users D. Guests
- 33. Operating system is organised using the file system structure for organising and storing files on the storage device. Which of the following is the default file system for Windows server operating system?
 - A.FAT32B.exFATC.ReFSD.NTFS(2 marks)
- 34. What happens to the server's data when a snapshot is created?
 - A. The data is moved to a separate physical disk
 - B. The data is compressed and stored in a separate file
 - C. The data remains intact, and the snapshot references it
 - D. The data is backed up to an external storage device

26. Which of the following is the default location for the Active Directory database?

- D. Virtual machine uses hardware efficiently permissions. What is the difference between a user account and a group account? A. B. C. There is no difference between a user account and a group account D. to access files and folders is called
- WWW. Chopico.te 39. The small footprint server, designed for remote administration that targets data center and private cloud deployments
 - А.
 - В.
 - C.
 - D.
- 40. A network protocol analyser that captures and analyses network traffic in real-time and is used for troubleshooting network issues, analysing network protocols, and identifying security vulnerabilities is known as
 - A. Traceroute
 - В. Ping
 - C. Nmap
 - D. Wireshark
- 41. Which of the following is the correct procedure for changing the permissions on a file or folder in Windows?
 - Right-click on the file or folder and select "Properties" A.
 - B. Click on the "Start" button and type "file permissions"
 - С. Open the file or folder properties and go to the "Security" tab
 - D. Click on the command prompt and type at "msinfo"

42. Which Windows utility allows for the management of user accounts and their associated permissions?

- A. Control Panel
- Β. Device Manager
- C. Windows Explorer
- D. **Computer Management**
- 43. The process of installing Windows Server, either on a new hardware or a virtual machine, without retaining the old operating system is called
 - Clean installation A.
 - Β. Custom installation
 - C. Full installation
 - Guided installation D.

35. Which of the following is **NOT** a task of managing and maintaining a Windows Server network?

- User authentication A.
- В. Managing users and groups
- C. Troubleshooting problems
- D. Configuring the operating system

36. Which tool is used to monitor the performance and health of servers and network devices in a Windows environment?

- Α. Active Directory Users and Computers
- Β. Task Manager
- C. System Center Operations Manager
- D. Event Viewer
- 37. Which of the following is a drawback of using virtual machines?
 - Virtual machines can have a performance impact on the physical hardware they are running on A.
 - Virtual machine recovery is easy Β.
 - C. Virtual machines can be more expensive than physical computers
- (2 marks)
- 38. User accounts and group accounts are two concepts commonly used in computer systems for managing access and
 - A user account is used to access files and folders, while a group account is used to access a computer
 - A user account is used to access a computer, while a group account is used to access files and folders
 - A user account is used to access both a computer and files and folders, while a group account is only used (2 marks)
 - - Cloud server
 - VMWare
 - Nano server
 - Virtual Machine

(2 marks)

(2 marks)

(2 marks)

(2 marks)

(2 marks)

(2 marks)

-	orts?				
A	11				
В					
C	e				
Γ	Port-based rules	(2 marks)			
45. T	The graphical tool that is used to manage disks and partitions in Windows, macOS, and Linux is known as				
Ā					
В					
C					
Γ	. FDISK	(2 marks)			
	The process of capturing and maintaining comprehensive records and information about the network infrastructure,				
	configurations and procedures is known as				
A	5				
B					
C	e				
Ľ	Service Legal Agreement	(2 marks)			
	Which network testing technique involves sending a series of network packets to measure response time and				
	eachability?				
A	6				
В	e				
C	e				
Ľ	Ping testing	(2 marks)			
	What name is given to the technology that combines multiple physical disk drive components into one or more				
	logical units for the purposes of data redundancy and performance?				
A	e e e e e e e e e e e e e e e e e e e	S			
В	J 1				
C					
Ľ	Rapid Application Interface Development	(2 marks)			
49. V	What is the main purpose of using snapshots in Windows Server?				
A					
В	. To provide a backup solution for the entire serv	rer			
C					
Ľ		(2 marks)			
50. V	Which of the following is NOT a valid account lockout policy setting in Windows Server?				
A		-			
В	. Account lockout duration				
C					
Γ	1 1	(2 marks)			

Which of the following firewall rules allows or denies traffic based on the source and destination IP addresses and

44.

ports?



DIPLOMA IN COMPUTER NETWORKS AND SYSTEMS ADMINISTRATION (DCNSA)

LEVEL II

WINDOWS SERVER ROLES AND FEATURES

TUESDAY: 25 April 2023. Morning Paper.

Time Allowed: 2 hours.

Answer ALL questions by indicating the letter (A, B, C or D) that represents the correct answer. This paper is made up of fifty (50) Multiple Choice Questions. Each question is allocated two (2) marks.

- 1. Windows server provides centralised management of computing resources such as computer accounts, resources and security. Which of the following services is provided by windows server?
 - Internet information services A.
 - Remote desktop services Β.
 - C. File and storage services
 - Active directory services D.
- 2. Which of the following storage mechanism provides block-level access to storage resources used in enterprise environments with aim of improving storage utilisation? www.clopi.co.ke
 - Storage Area Network A.
 - Β. Network-Attached Storage
 - C. Distributed File System
 - D. Cloud Storage
- 3. Which of the following explains the purpose of server clustering?
 - To improve server performance A.
 - To increase server reliability B.
 - C. To enhance server security
 - It does not provide users with higher availability D.
- Remote Desktop Services (RDS) allow users to remotely access graphical desktops and Windows applications. 4. Which of the following is **NOT** a service of RDS delivery?
 - A. Cost savings.
 - Operability. Β.
 - C. Accounting
 - D. Security
- 5. A server is a computer program or device that provides a service to another computer program and its user, also known as the client. What is the difference between physical and virtual server?
 - A. Virtual servers are real, while physical servers are simulated
 - Physical servers are real, while virtual servers are simulated B.
 - Physical servers are faster, while virtual servers are slower C.
 - D. Virtual servers are faster, while physical servers are slower
- 6. What security measure should be taken when creating a server account?
 - Strong password A.
 - Two-factor authentication В.
 - C. Regular backups
 - D. Firewall protection

- 7. The ability of Active Directory Domain Service to integrate with other Microsoft technologies making it easier to manage mixed environments is referred to as?
 - A. Reliability
 - B. Scalability
 - C. Interoperability
 - D. Portability
- 8. IT Personnel main role is to design, install, program and manage computer hardware and software. Who among the following is responsible for managing?
 - A. Server accounts end user
 - B. Network engineer
 - C. IT support team
 - D. System administrator
- 9. What is DNS in the context of servers?
 - A. A server that provides a secure, encrypted connection between clients and the internet
 - B. A system for converting human-readable domain names into IP addresses
 - C. A system for assigning IP addresses to servers
 - D. A system for routing network traffic
- 10. A network consists of two or more computers that are linked in order to share resources (such as printers and CDs), exchange files, or allow electronic communications. What is the purpose of a server in a network?
 - A. To manage user access
 - B. To store data
 - C. To run applications
 - D. To act as a gateway to the internet
- 11. Virtualisation relies on software to simulate hardware functionality and create a virtual computer system. Which technology allows creation and running of virtual machines (VMs) to enable multiple operating systems to run on a single physical server?
 - A. Hyper-V
 - B. KVM
 - C. Red Hat
 - D. VMware
- 12. Which of the following windows PowerShell command is used to display path to the current working directory?
 - A. dir
 - B. mkdir
 - C. ls
 - D. pwd
- 13. Windows service is a computer program that operates in the background. Which of the following is a start-up type service?
 - A. Running
 - B. Stopped
 - C. Automatic
 - D. Stand-by
- 14. Which of the following is a lightweight command that is used in the Windows PowerShell environment to perform a single specific function such as coping files and changing directories?
 - A. Scripts
 - B. Cmdlets
 - C. Codes
 - D. Object
- 15. The server technology that deals with the distribution of network traffic across multiple servers is known as?
 - A. Latency
 - B. Virtualisation
 - C. Jitter
 - D. Load balancing

- 16. Which of the following connections establishes a secure, encrypted connection between a computer and the internet, providing a private tunnel for data and communications?
 - Wired connection A.
 - В. Wireless connection
 - C. Virtual Private Network
 - D. Cellular connections
- 17. A network of servers that work together to distribute content to users based on their geographical location is termed as?
 - Content delivery network A.
 - Virtual Private Network server Β.
 - C. Proxy server
 - D. Domain Name System
- 18. The technology of creating multiple virtual servers on a single physical server, allowing multiple applications to run on a single machine to improve resource utilisation is known as?
 - A. Application virtualisation
 - B. Server virtualisation
 - C. Network virtualisation
 - D. Storage virtualisation
- 19. Which of the following server automatically assign IP addresses to clients on a network, making it easier to manage and maintain network resources.
 - A. DNS server
 - Β. Proxy server
 - C. DHCP server
 - D. IIS server
- A server technology used for improving data storage reliability and performance by combining multiple disk drives. 20. www.chor
 - RAID Α.
 - B. Virtualisation
 - C. Cloning
 - D. Partitioning
- 21. Which of the following **BEST** describes the use of server operating system?
 - To provide a user interface for users to interact with the server Α.
 - To provide a platform for running server software and managing hardware resources В.
 - To provide a platform for hosting websites and web applications C.
 - D. None of the above
- 22. Windows Server supports enterprise-level management, data storage, applications, and communications. Which statement describes a cluster in the context of servers?
 - A group of servers that work together to provide a service A.
 - Β. A single server with multiple processing units
 - C. A group of servers that compete for resources
 - D. A group of server that serves web pages to clients
- 23. A container object within a domain that you can use to consolidate users, computers, groups, and other objects is known as?
 - A. Docker
 - Β. Object
 - C. Organisation Unit (OU)
 - D. Group Policy Object (GPO)
- 24. Which of the following statements **BEST** illustrates the use of hypervisor in the context of servers?
 - A piece of software that provides load balancing A.
 - В. A piece of software that provides firewall functionality for security purpose
 - C. A server technology that deals with the distribution of network traffic
 - D. A piece of software enabling virtualization by creating and managing VMs

- 25. Which feature of Windows server allows administrators to centrally manage the configuration of user and computer accounts in an active directory environment
 - A. Remote Desktop Services
 - B. Group Policy
 - C. Performance monitor
 - D. Failover clustering
- 26. Which of the following is **NOT** a graphical user interface network testing tool?
 - A. Wireshark
 - B. OpManager
 - C. Nagios
 - D. Dig
- 27. Mr. Juma wanted to have a collection of resources, such as computers and users to be managed by a single instance. Which of the following can be used to accomplish this?
 - A. Active directory
 - B. Resources
 - C. Domain
 - D. Group
- 28. Which of the following PowerShell command is used to add a user?
 - A. Useradd
 - B. Adduser
 - C. Set-ADUser
 - D. New-ADUser
- 29. Server maintenance refers to the various tasks and procedures performed to keep a server operating optimally and securely. Which of the following is NOT a server maintenance task?

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- A. Performing patches and fixes
- B. Creating back-up
- C. Creating and managing OUs
- D. Performing disk cleanup
- 30. Which of the following is a server computer in active directory domain that performs centralised authentication and authorisation functions, such as verifying user credentials and controlling access to resources.
 - A. Application controller
 - B. Domain Controller
 - C. Application Servers
 - D. Virtualisation Servers
- 31. Hypertext Transfer Protocol Secure (HTTPS) is used for secure web browsing and web services. What is the port number associated with HTTPS application layer service?
 - A. Port 443
 - B. Port 80
 - C. Port 8080
 - D. Port 21
- 32. In a Windows server environment, various rights and privileges can be assigned to users and groups to control their access to resources and functionality. Which of the following is **NOT** a restricted service?
 - A. Take ownership of files and directories
 - B. Adjust memory quotas for a process
 - C. Load and unload device drivers
 - D. Read and execute access to files and directories
- 33. A security device that monitors and controls incoming and outgoing network traffic based on predetermined security rules is Known as?
 - A. Router
 - B. Domain controller
 - C. Firewall
 - D. Switch

- 34. Which of the following is a windows server database file that stores information about user accounts, passwords, and security settings?
 - Security Account Manager A.
 - В. Active Directory Domain System
 - C. ActiveX Controls
 - D. ActiveX Data Object
- 35. A point-in-time copy of the data stored on the server used for various purposes, such as backup and recovery, disaster recovery, testing, and data analysis is called?
 - Α. Log
 - Β. Snapshot
 - С. Add-in
 - D. Journal
- 36. Network testing tools can be used to diagnose and troubleshoot network issues. State the command used to displays information about network connections, routing tables, and network statistics?
 - A. ping
 - B. traceroute
 - C. ipconfig
 - D. netstat
- 37. Ports are virtual places within an operating system where network connections start and end. Which of the following is the numerical identifier assigned to a network service that runs on a server?
 - A. Unique identifier
 - IP address Β.
 - C. A server port
 - D. Proxy address
- Each node on a computer network is uniquely identified through an IP address. What is the name given to the IP. content component that identifies an individual server on some specific network? A. Network ID B. Host ID C. Subnet mask 38.

 - C. Subnet mask
 - D. Octet
- 39. Which of the following statements is **INCORRECT** about the virtual machine.
 - It is a software simulation of a physical machine Α.
 - They are the heart of the operating system В.
 - C. They can run more than one operating system on a single physical computer
 - D. VMware is an example of process virtual machine
- 40. The type of a user account in windows server which has a collections of user accounts that can be managed as a single entity is known as?
 - Group Accounts A.
 - Β. **Domain Accounts**
 - C. Virtual Accounts
 - Local User Account D.
- 41. The level of importance assigned to a process by the server operating system is referred to as?
 - A. Process scheduling
 - Process thread В.
 - C. Zombie
 - Process priority D.
- 42. Which of the following is a facility used to house computer systems and related components, such as telecommunications and storage systems
 - A. Hypervisor
 - В. Cloud
 - C. Data center
 - D. Server rack

- 43. What is the default subnet mask for a Class C IP address?
 - A. 255.0.0.0
 - B. 255.255.255.0
 - C. 255.255.0.0
 - D. 255.255.255.248
- 44. The technology that enables organisations to provide their employees with remote access to virtual desktops that run on servers within the data center is known as?
 - A. Virtual Desktop Infrastructure
 - B. Remote Desktop Connection
 - C. Remote Method Invocation
 - D. Virtualisation Technology
- 45. Which of the following file system is used for storing, organising, and finding files on a hard disk efficiently with features such as attribute-level access control lists for objects?
 - A. FAT
 - B. FAT32
 - C. VFAT
 - D. NTFS
- 46. Which statements **BEST** describes the purpose of assigning an IP address to a server?
 - A. To protect the server from unauthorised access
 - B. To store and transfer files on the server or remote computers
 - C. To allow communication between the server and other devices on the network
 - D. To provide user authentication and authorisation
- 47. Which system tool is used to view, update server device hardware settings and driver software?
 - A. Event viewer
 - B. WMI control
 - C. Device Performance and health
 - D. Device manager
 - is the user's explicit individual rights and the groups to which the user belongs to.
 - A. Access token
 - B. Object

48.

- C. Node
- D. Right and permissions
- 49. The security measure implemented to prevent unauthorised access to systems or networks that involves locking the account for a certain period of time after a specified number of failed login attempts is known as?
 - A. Password expiry
 - B. Lockout policy
 - C. Authentication
 - D. Authorisation
- 50. Which of the following statements **BEST** describes the function of a Network Operating System (NOS)?
 - A. To manage hardware resources
 - B. To provide user authentication and authorisation
 - C. To manage network resources and provide communication between network devices
 - D. To manage storage and retrieval of data

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DIPLOMA IN COMPUTER NETWORKS AND SYSTEMS ADMINSTRATION (DCNSA)

LEVEL II

WINDOWS SERVER ROLES AND FEATURES

TUESDAY: 6 December 2022. Morning Paper.

Answer ALL questions by indicating the letter (A, B, C or D) that represents the correct answer. This paper is made up of fifty (50) Multiple Choice Questions. Each question is allocated two (2) marks.

- 1. Different servers provide different services. Servers are dedicated, meaning they are created to do one thing and cannot change. Which of the following is NOT a type of a server?
 - File server A.
 - Β. Desktop server
 - C. Print server
 - D. Web server

2.	Windows Deployment Service is a server role that gives administrators the ability to deploy Windows operating
	systems remotely. Which one of the following is NOT an advantage of Windows Deployment Services?

- А. WDS-based installation is easy and efficient due to network-based installation
- Β. WDS-based installation reduces the cost and complexity of installation
- C. There is no support for mixed environments deployment
- D. There is support for both server and client computers installation
- 3. Which of the following is the current trend for acquiring web pages' storage space?
 - Donation A.
 - Buying disks Β.
 - C. Leasing D. Recycling disks
- 4. Choose the server resource that requires redundancy for better performance.
 - Network interface A. Β. Screen
 - C. Mouse D. Keyboard (2 marks)
- 5. What factor is **NOT** considered when selecting a server class hardware for a big organisation?
 - A. Compatibility В. Speed
 - C.
 - Warranty User friendliness D.
- 6. Which network transmission would be the LEAST suitable to use in a server connection?
 - A. Fiber
 - Β. Coaxial cable
 - C. Twisted pair cable
 - D. Blue tooth (2 marks)

Time Allowed: 2 hours.

(2 marks)

(2 marks)

(2 marks)

(2 marks)

- 7. When SCSI disks are used in high end PCs and servers, the controller maintains a list of ______ on the disk that is initialized during formatting which sets aside spare sectors not visible to the operating system.
 - A. Destroyed blocks, high level
 - B. Bad blocks, partitioning
 - C. Bad blocks, low level
 - D. Destroyed blocks, partitioning
- 8. Securing a firewall is the vital first step to ensure only authorized administrators have access to it. This can be achieved through the carrying out the following **EXCEPT**?
 - A. Update with the latest firmware
 - B. Deleting, disabling, or renaming default accounts and changing default passwords
 - C. Enabling the Simple Network Management Protocol (SNMP), which collects and organizes information about devices on IP networks.
 - D. Restricting outgoing and incoming network traffic for specific applications or the Transmission Control Protocol (TCP) (2 marks)
- 9. Which of the following is always unique to a computer regardless of time and place?
 - A. MAC address
 - B. IP address
 - C. Serial number
 - D. Computer name
- 10. Which of the following is **NOT** a benefit of disk defragmentation in a server?
 - A. Improves overall server performance
 - B. Reduces chances of losing files
 - C. Improves disk Speed
 - D. Makes a disk last longer
- 11. In networking, a protocol is a standardized set of rules for formatting and processing data. Protocols enable computers to communicate with one another. Choose a protocol that is used to secure servers in a network.
 - A. TCP/IP
 - B. SSL
 - C. UDP
 - D. SMB
- 12. The server protocol ports are also divided into TCP ports and UDP ports. Which one of the following is **NOT** a type of a TCP port?
 - A. FTP
 - B. TELNET
 - C. DNS
 - D. SMTP
- 13. Which of the following is **NOT** a type of a disk quota?
 - A.AccessB.Usage
 - C. Block
 - D. File
- 14. Which of the following statements is **TRUE** about user authentication?
 - A. Ability to perform a task as a user
 - B. Authentication is a privilege
 - C. It deters a user from doing some actions
 - D. Checks whether one is what he claims to be.
- 15. Which of the following action is carried out by a privileged user during printer management?
 - A. Printing
 - B. Installation
 - C. Loading paper
 - D. Repairing a printer

(2 marks)

16.	А. В.	of the following actions constitutes system recovery? Copying files Restoring a system		
	C. D.	Copying changes not in a full backup Removing old unwanted files.	(2 marks)	
17.		k "picture" of a server including its files, software and settings at a particular point in time t re a point in time state of the server is called?	hat is instant, and	
	A.	Rollback		
	B.	Backup		
	C. D.	Snapshot Virtual machine	(2 marks)	
10	A		, , , , , , , , , , , , , , , , , , ,	
18.	A virtu A.	al machine can be viewed as? Client computer		
	A. B.	The main network server		
	D. С.	A mirror copy of a server		
	D.	Implementation of a hardware in software	(2 marks)	
19.	Which	of the following is the use of a network tester tool?		
-	A.	Check computers in a network		
	В.	Check if a cable is correctly clipped		
	C.	Check if a network card is working properly		
	D.	Test storage spaces	(2 marks)	
20.	The following are some of the advantages of Hyper-V in Windows Server EXCEPT?			
	А.	It simplifies the procedures involved in setting up test labs.	ve	
	В.	It simplifies the procedures involved in setting up test labs. You can reduce the number of physical servers that must be deployed in the server root space and power requirements	n, thereby saving	
	C.	space and power requirements. Security is reduced because server virtualization increases exposure of virtual servers that	NV /	
		information.	AN	
	D.	Hyper-V leverages other server components such as failover clustering to improve server a	(2 marks)	
21.	Jacob, comma	a system admin used the command arp -a to manage a network on a server. What is thand?	ne purpose of the	
	А.	To show computers physical address		
	В.	Renew all computer IP address		
	C.	To send a giant packet in the network		
	D.	To restart the network	(2 marks)	
22.		statement below BEST describes a system virtual machine?		
	А. В.	A machine with only a CPU virtualized		
	ь. С.	The main machine hosting the virtual machine A machine with only the memory virtualized		
	С. D.	A machine fully virtualized on a physical machine	(2 marks)	
			· · ·	
23.	Y ou ha		er role is installed	
	A.	Find-ServerPackage		
	B.	Get-Package		
	C.	Find-Package		
	D.	Get-WindowsOptionalFeature	(2 marks)	
24.		tool is recommended for changing the server local settings? Powershell		
	А. В.	CMD		
	Б. С.	Notepad		
	С. D.	Server admin GUI tool	(2 marks)	

25.	 Which of the following ports is associated with HTTP? A. 25 B. 53 C. 80 D. 44 	(2 marks)
26.	 Which of the following is NOT a function of a firewall in a network? A. Substitute active directory B. Control access of institution website C. Prevents leakage of internal information 	
27.	D. Strengthen network security	(2 marks)
21.	Disk partitioning can be referred to as?A.Backing up the diskB.Protecting the diskC.Preparing a disk for use	
	D. Creating of logical drives in one disk	(2 marks)
28.	 The server administrator in your organization would like to show all the processes running, which command will he use? A. W32tm B. Tasklist C. Dir D. Show run 	windows (2 marks)
29.	Dorcas wants to publish a printer to an Active Directory. Where would she click in order to accomplish this	. ,
27.	 A. The Sharing tab B. The Advanced tab C. The Device Settings tab 	iusk.
	D. The Printing Preferences button	(2 marks)
30.	 Alice is working on a Windows Server 2016 Datacenter Server system. She needs to view which roles and are installed on the machine. Which PowerShell cmdlet can she use to see this? A. Get-event B. New-event C. Trace-command D. Get-WindowsFeature 	d services (2 marks)
31.	 Which of the following is NOT an important server feature for all servers? A. Large memory B. Fast CPU C. Fast network 	
	D. Huge secondary storage	(2 marks)
32.	Chose a server feature which an administrator can manage.A.Memory speedB.Folders accessC.Every network conditions	
	D. Storage access speed	(2 marks)
33.	 The Sylos.com network consists of a single domain named Sylos.com. All servers on the Sylos.com network Windows Server 2019 installed. You are running a training exercise for junior administrators and you are discussing printer pooling. Which of the following is TRUE with regards to printer pooling? A. Printers in a pool must be of the same model, and use the same printer driver. B. Each printer in the pool must have a different printer driver. C. Printer ports used in the pool must be of the same type. D. The types of printer ports used in the pool must be mixed. 	
21		- mains)
34.	 A common server licenses in windows servers is? A. Freeware B. Shareware C. Proprietary 	

D. Open source

(2 marks) DN23 Page 4 Out of 6

(2 marks)

Β. Attended C. Silent D. Core (2 marks) 38. A junior administrator in your company needs to back up the existing data on a computer before she can install a new application. She also needs to ensure that you are able to recover individual user files that are replaced or deleted during the installation. What should she do? A. Create a System Restore point. B. Perform an Automated System Recovery (ASR) backup and restore. C. In the Windows Server Backup utility, click the Backup Once link. D. In the Backup and Restore Center window, click the Back Up Computer button. (2 marks) 39. What is a guest machine in virtualization? (2 marks) A computer that hosts Guest A. B. A Virtual Machine C. A Virtual Machine that hosts other Virtual Machines A temporary Virtual Machine D. 40. Which of the following is the **CORRECT** definition of a Windows Domain? A. Computers managed by a Domain Controller В. Printers managed by a single server C. A group of Windows Servers D. A group of users (2 marks) 41. Which one of the following is NOT a valid Active Directory object? A. User Account Β. File Share C. Group Policy Object D. Group (2 marks) 42. Hyper-V lets you run multiple operating systems as virtual machines on Windows. What is the first software to load at boot time for a machine running Hyper-V? A. Windows operating system B. Hypervisor С. Both the OS and hypervisor simultaneously D. Virtual machines and applications (2 marks) 43. What IP address should one put as the default gateway of the server? A. The IP address of the router Β. The IP address of the DNS server C. You should not specify this option D. The IP address of the Windows Domain (2 marks)

- 35. A system administrator wants to change the memory of a virtual machine that is currently powered up. What does he need to do?
 - Shut down the virtual machine, use the virtual machine's settings to change the memory, and start it again. A.
 - В. Use the virtual machine's settings to change the memory.

Which of the following is **NOT** a common device in servers?

Which of the following is **NOT** an installation method?

36.

37.

A.

Β.

C.

D.

A.

Network port

Mouse

Keyboard

Unattended

Graphics processing unit

- C. Pause the virtual machine, use the virtual machine's settings to change the memory, and resume it.
- D. Save the virtual machine, use the virtual machine's settings to change the memory, and resume it. (2 marks)

44.	Choor A. B. C. D.	se the statement that BEST defines a DHCP exclusion? A single IP address that is not to be supplied to clients by DHCP A range of IP addresses that are not to be supplied to clients by DHCP A number of static IP addresses that cannot be supplied to clients by DHCP A single static IP address that cannot be supplied to clients by DHCP	(2 marks)
45.	What	type of IP address is needed for a device to be visible on the Internet?	
	A.	Public	
	B.	Binary	
	С.	Class B	
	D.	Subnetted	(2 marks)
46.	admir A.	triction that prevents any executable from running except for those that have been specifically all nistrator in a server is called? Basic user	lowed by an
	B.	Disallowed	
	C.	Power-user	
	D.	Unrestricted	(2 marks)
47.	-	process of granting users access to files in a server is called?	
	А.	Authentication	
	В.	Authorisation	
	C.	Allocation	
	D.	Assignment	(2 marks)
48.	Whic	h of the following is NOT a type of DNS record?	
	А.	Cname record	
	В.	A record	
	С.	AAAA record	
	D.	h of the following is NOT a type of DNS record? Cname record A record AAAA record Database records	(2 marks)
49.	How	many DHCP servers can you have on a network?	
	А.	One	
	В.	Two	
	С.	Three	
	D.	Four	(2 marks)
50.	The f	astest RAID in a server is?	
	A.	RAID 2	
	B.	RAID 5	
	C.	RAID 1	
	D.	RAID 0	(2 marks)

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DIPLOMA IN COMPUTER NETWORKS AND SYSTEM ADMINSTRATION (DCNSA)

LEVEL II

WINDOWS SERVER ROLES AND FEATURES

TUESDAY: 2 August 2022. Morning paper.

This paper is made up of fifty (50) Multiple Choice Questions. Answer ALL questions by indicating the letter (A, B, C or D) that represents the correct answer. Each question is allocated two (2) marks.

A. Webs B. Workgroup C. Domain D. Sites 2. Is the processing which is carried out by the use of remote terminal processors. (2 marks) A. Digital processing (2 marks) B. Logical processing (2 marks) C. Teleprocessing (2 marks) J. Manual processing (2 marks) A. 2 (2 marks) A. 2 (2 marks) A. 2 (2 marks) A. 2 (2 marks) A. Locical transmission (2 marks) A. Local transmission (2 marks) A. Baud (2 marks) A. Baud (2 marks) A. Baud (2 marks) A. Baud (2 marks) A. Low level (2 marks) B. High level<	1.		h of the following is NOT one of the four divisions or container structures in active directory?	(2 marks)
C. Domain D. Sites 2. Is the processing which is carried out by the use of remote terminal processors. (2 marks) A. Digital processing (2 marks) B. Logical processing (2 marks) C. Teleprocessing (2 marks) D. Manual processing (2 marks) A. 2 (2 marks) A. Local transmission (2 marks) Serial transmission (2 marks) (2 marks) A. Baud (2 marks) B. Band (2 marks) C. Hertz (2 marks) D. Seconds (2 marks) 6. What type of hard disk formatting creates FAT file system? (2 marks) A.				
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D. Minimum level 7. Which tab option must be enabled or disabled to specify a printer share name and accessibility? (2 marks) A. General		C.		
A. General			Minimum level	
A. General	7.	Whic	h tab option must be enabled or disabled to specify a printer share name and accessibility?	(2 marks)
				× ,
B. Sharing		B.	Sharing	
C. Location				
D. Advanced				

Time Allowed: 2 hours.

8.	 What command can you type to perform a system state back up? A. Wbadmin start statebackup B. Wbadmin start systatebackup C. Wbadmin start systemstatebackup D. Wbadmin begin systemstatebackup 	(2 marks)
9.	 Which one of the following ports is NOT used by active directory? A. Port 135 TCP, UDP B. Port 137 TCP, UDP C. Port 636 TCP D. Port 203 	(2 marks)
10.	 Which of the following is the minimum processor specification needed for windows server 2016? A. x32 or x64 processor running at 1.4 Ghz B. x64 processor running at 1.4 Ghz C. x64 dual core processor running at 1.4 Ghz D. x64 processor running at 1.8 Ghz 	(2 marks)
11.	 What is the other name for the system virtual machine? A. Hardware virtual machine B. Software virtual machine C. Real virtual machine D. Active real machine 	(2 marks)
12.	 Which of the following functions is not allowed for a standard user account? A. Install a printer B. Install network drivers C. Configure WPA keys D. Modify the desktop settings 	(2 marks)
13.	 B. Install network drivers C. Configure WPA keys D. Modify the desktop settings What is the CIDR equivalent for 255.255.254? A. /24 B. /25 C. /26 D. /27 What is a Guest as used in virtualization? 	(2 marks)
14.	 What is a Guest as used in virtualization? A. A computer that hosts Guest VMs B. A Virtual Machine is often referred to as a Guest C. A VM that hosts other VMs D. A temporary VM that must eventually leave its host 	
15.	What subnet mask should you use for a 200 computers network using static IP address' on the 192.168. A. 255.0.0 B. 255.255.0.0 C. 255.255.255.0 D. 255.255.255.255	10.0
16.	 Which of the following information can be configured on a VPN client so that it can access VPN server A. Lookup address B. Mac address C. Domain name D. Connection address 	?
17.	Which command is used to purge the DNS resolver cache? A. Ipconfig /flush	

- Ipconfig /flush Ipconfig /flushdns Ping /flush Grope /flushdns В. С.
- D.

- 18. What program or tool is the easiest to use when administering the server such as editing its host name, domain membership, firewall, networking and settings?
 - A. Command prompt
 - B. Windows PowerShell
 - C. RSOP.msc
 - D. Server manager
- 19. A type of backup in SQL server done only to the data that has changed since the last full backup is called?
 - A. Cold backup
 - B. Full Backup
 - C. Online backup
 - D. Differential backup
- 20. Which windows role is installed by default?
 - A. Active Directory Domain Services
 - B. File and Storage Services
 - C. DHCP Server
 - D. PowerShell

21. What filename extension is applied by default to custom consoles that are created for the MMC? (2 marks)

- A. .mmc
- B. .msc
- C. .con
- D. .mcn
- 22. Which of the following contains the controls used to modify DNS name caching?
 - A. The Forwarders tab of a server's properties sheet
 - B. The State of Authority (SOA) tab of a zone's Properties sheet
 - C. The Root Hints tab of a server's Properties sheet
 - D. The New Zone Wizard
- 23. Which of the following command line options will enable you to check the status of the local Netbios name cache and verify the MAC address of the local computer?
 - A. Enter **nbtstat -c name**, where **name** is Netbios name computer
 - B. Enter **ipconfig -all** /**netstat**
 - C. Enter **ipconfig** /**nbtstat name**, where **name** is the Netbios **name** of your computer
 - D. Enter **nbtstst -a name**, where **name** is the Netbios name of your computer
- 24. Which of the following can be a member of a domain but works without active directory?
 - A. Standalone CA
 - B. Enterprise CA
 - C. Root CA from the network
 - D. Standard user
- 25. You are planning an IP addressing strategy for intranet servers on your Windows server 2003, network. You want to ensure that these servers cannot be directly accessed from the internet in order to maintain security. Which address range can you use to meet this objective? (2marks)
 - A. 172.32.0.1 through 172.168.255.254
 - B. 10.255.255.0 through 10.255.255.255
 - C. 192.168.0.0 through 192.168.18.254
 - D. 192.162.0.1 through 192.168.0.0

26. How many CGI applications are supported by IIS 6 by default concurrently?

(2marks)

(2marks)

B. 4 C. 6

2

7

A.

D.

- 27. Which users are able to manage profiles on windows 7 computers?
 - A. The user who uses the profile
 - B. Server operators
 - C. Power users
 - D. Administrators
- 28. You want to monitor the CPU, memory and disk usage on your computer to ensure that there are no bottlenecks. Which MMC snap-in would you use to access system Monitor? (2 marks)
 - A. System monitor
 - B. Reliability Monitor
 - C. ActiveX control
 - D. Performance logs and alerts
- 29. Which RAID uses disk striping, whereby blocks of data are divided up into stripes with each stripe written to a different disk.
 - A. RAID 0 AND RAID 5
 - B. RAID 1 AND RAID 5
 - C. RAID 2 AND RAID 5
 - D. RAID 1 AND RAID 3
- 30. If you wanted to require that a user enter an administrator password to perform administrative task, what type of user account should you create for the user?
 - A. Administrator user account
 - B. Standard user account
 - C. Authenticated user account
 - D. Power user account
- 31. You have installed a clean installation of windows on your computer, you want an image of the new installation to use as a basis for remote installs. What windows utility should you use to accomplish this? (2 marks)
 - A. WDS
 - B. Windows sim
 - C. ImageX
 - D. Sysprep
- 32. You have a user with limited vision, which accessibility utility is used to read aloud screen text, such as text in dialogue boxes, menus and buttons?
 - A. Read aloud
 - B. Orator
 - C. Dialogue Manager
 - D. Narrator
- 33. You have scheduled a task scheduler but it doesn't run when it is supposed to run, you have already verified that the task scheduler is running, what else should you check? (2marks)
 - A. Verify that the task has been configured to run in unattended mode
 - B. Make sure the user who is scheduled to run the task has the appropriate permissions
 - C. Make sure that the time is properly synchronised on the computer
 - D. Verify that the process manager task is running
- 34. You want to configure a utility that will verify whether a website is known to be fraudulent, which utility should you configure?
 - A. Pop-up blocker
 - B. RSS Reader
 - C. Phishing filter
 - D. Add-on manager
- 35. To protect your windows machine from spyware infection what windows utility should you configure? (2 marks)
 - A. Windows Defender
 - B. Phishing filter
 - C. Pop-up blocker
 - D. Windows OneCare

36. What happens when a computer enters sleep mode after a specified period?

- A. The computer is shut down gracefully
- B. Data will be saved to the hard disk
- C. The monitor and hard disk will be turned off, but the computer will remain in an active state
- D. The user session will not be available when you resume activity on the computer
- 37. You are using internet explorer to access several RSS feeds that you subscribe to, one of the feeds stores only the 10 most recent updates. You want to ensure that the last 100 updates are stored. What should you do?
 - A. Configure the RSS feed to automatically download attached files
 - B. Modify the schedule so that the RSS feed is updated more than ones a day
 - C. Turn on feed reading view in IE
 - D. Modify the archive setting so that the last 100 items are stored
- 38. What step is required by nearly every server role immediately after installation? (2 marks)
 - A. Pre-deployment configuration
 - B. Powering on the new server role
 - C. Restarting the new server role
 - D. Post deployment configuration
- 39. A ______ is used by a print server as a buffer to hold data before it is sent to the printer. (2marks)
 - A. queue
 - B. spool
 - C. hub
 - D. medium
- 40. You are setting up a printer pool on a computer running Windows Server 2012 R2. The printer pool contains three identical print devices. You open the Properties dialog box for the printer and select the Enable Printer Pooling option on the Ports tab. Which of the following steps must you perform next? (2 marks)
 - A. Configure the LPT1 port to support three printers.
 - B. Select or create the ports mapped to the three printers.
 - C. On the Device Settings tab, configure the installable options to support two additional print devices.
 - D. On the Advanced tab, configure the priority for each print device so that printing is distributed among the three print devices.
- 41. Which of the following types of server virtualisation provides the best performance for high-traffic servers in production environments? (2marks)
 - A. Type I virtualization
 - B. Type II virtualization
 - C. Presentation virtualization
 - D. RemoteApp
- 42. Which of the following Hyper-V features is not required to make it possible for a VM to function with a minimum RAM value that is lower than the startup RAM value? (2 marks)
 - A. Smart paging
 - B. Dynamic Memory
 - C. Memory Weight
 - D. Guest Integration Services
- 43. When you install the Hyper-V role on a server running Windows Server 2012 R2, the instance of the OS on which you installed the role is converted to what system element? (2 marks)
 - A. The hypervisor
 - B. The Virtual Machine Monitor
 - C. The parent partition
 - D. A child partition
- 44. What is the name of the database that keeps track of a huge amount of stuff and gives us a centralized way to manage all our network machine, users, and resources?
 - A. Forest
 - B. Active Directory
 - C. Domain controller
 - D. Tree

45. Which of the following is **NOT** a part of active directory structure?

- A. Organisational Unit
- B. Group policy
- C. Domain
- D. Tree

46. A domain controller provides _______ to ensure that no two domains are created with the same name in the same forest.

- A. User account provisioning
- B. Resource access processing
- C. Database Replication
- D. Domain Naming Master
- 47. Which RAID should you apply if you have a machine with two hard disk and you add an extra 100 GB hard disk for a specific Client-Server application to run on, because the application gets very slow returning query data? You want to have the fastest possible access for the Client-Server App to the HDD's. (2 marks)
 - A. RAID0
 - B. RAID1
 - C. RAID5
 - D. RAID2

48. How can you assign an application to one processor exclusively?

(2 marks)

(2 marks)

- A. Right click on application executable, select properties and select assign processor
- B. Right click on application process in Task Manager, select Set Affinity, and select the appropriate processor
- C. Open Task Manager, chose options from task bar, select processor and assign processes to appropriate processor
- D. Open Task Manager, chose Performance, chose view all processors, assign processes to appropriate processor
- How can you recreate the PTR record in your Windows 2000 DNS server from you Windows 2000 client? (2 marks)
 A. Run ipconfig /registerdns from the client
 - B. Run ipconfig all /registerdns from the DNS server
 - C. Start the DNS Dynamic service on your client computer
 - D. Create a host file with the #DYNAMIC command on the client computer
- 50. Which of this is NOT a good trick for improving performance?
 - A. Minimise FTP user isolation.
 - B. Use ISAPI extensions instead of ISAPI filters.
 - C. Set up remote virtual directories.
 - D. Keep websites and FTP servers on different machines.

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