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Library
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BRAINWARE UNIVERSITY

Term End Examination 2025-2026

Programme – B.Sc.(ANCS)-Hons-2023

Course Name – Windows Server Management

Course Code - BNC60118

(Semester VI)

Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :

- (i) Identify the service that manages the printing process by accepting print jobs and sending them to the appropriate printer.

a) Print security	b) Print Server
c) DNS Server	d) FTP Server
- (ii) Choose the primary benefit of implementing a Print Pool in a network environment.

a) It allows printing from the internet.	b) It distributes the print load across multiple identical printers.
c) It increases the resolution of print jobs.	d) It allows different users to have different print priorities.
- (iii) Predict what happens if a physical printer in a Print Pool malfunctions while other printers in the pool are operational.

a) The entire print queue stops processing.	b) The print job is automatically directed to the next available printer.
c) The server deletes the print job.	d) The user must reinstall the printer driver.
- (iv) Identify the type of disk storage system that uses partitions (Primary and Extended) and is compatible with legacy operating systems.

a) Dynamic Disk	b) Basic Disk
c) Virtual Disk	d) RAID Disk
- (v) Choose the volume type that combines space from multiple physical disks but writes data to them sequentially (filling one before the next).

a) Striped Volume	b) Mirrored Volume
c) Spanned Volume	d) RAID 5 Volume
- (vi) Predict the outcome if a single hard disk fails in a RAID 0 (Striped Volume) configuration.

a) Only the data on the failed disk is lost.	b) The system switches to the parity drive.
c) All data on the entire volume is lost.	d) The system runs slower but data is safe.

- (vii) Select the term used to describe the IP address ranges that are mapped to specific Active Directory Sites.
 - a) Site Links
 - b) Subnets
 - c) Bridges
 - d) Zones
- (viii) Choose the Active Directory component responsible for generating the replication topology between sites (connection objects).
 - a) ISTG (Inter-Site Topology Generator)
 - b) KCC (Knowledge Consistency Checker) within a site
 - c) RID Master
 - d) Schema Master
- (ix) Relate the concept of "Cost" in a Site Link to its function in replication.
 - a) It determines the monetary cost of bandwidth.
 - b) It determines the frequency of replication updates.
 - c) It allows administrators to prioritize one path over another; lower cost is preferred.
 - d) It determines how many users can log in.
- (x) Identify the type of hypervisor architecture that Microsoft Hyper-V uses.
 - a) Type 2 (Hosted)
 - b) Type 1 (Bare-Metal)
 - c) Containerized
 - d) Kernel-based Virtual Machine
- (xi) Choose the primary function of the "Parent Partition" in the Hyper-V architecture.
 - a) It runs the Guest VMs directly.
 - b) It is a passive storage container.
 - c) It manages the hypervisor and hardware access for child partitions.
 - d) It is used only for Linux VMs.
- (xii) Relate the feature "Dynamic Memory" to its benefit in a virtualization environment.
 - a) It allows VMs to share hard drive space.
 - b) It increases the CPU speed of the VM.
 - c) It allows the host to reclaim unused RAM from VMs to allocate to others.
 - d) It encrypts the VM memory.
- (xiii) Identify the protocol commonly used by DSL providers to encapsulate PPP frames inside Ethernet frames.
 - a) SLIP
 - b) PPTP
 - c) PPPoE
 - d) L2TP
- (xiv) Predict the result of using PPTP in a high-security environment.
 - a) Data will be highly secure.
 - b) The connection will be fast but vulnerable to encryption cracking.
 - c) It will require certificates.
 - d) It will use UDP port 500.
- (xv) Apply security best practices: You need a VPN protocol that provides strong encryption and mutual authentication. Which combination should you use?
 - a) PAP with SLIP
 - b) L2TP with IPsec
 - c) PPTP with PAP
 - d) SLIP with CHAP

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Group-B

 $3 \times 5 = 15$

2. What is the role and function of a Printer Driver. (3)
3. Identify the primary purpose of a Spanned Volume in Windows Server. (3)
4. Apply your knowledge of Active Directory auditing to determine how auditing must be configured to track who modifies specific user attributes. (3)
5. Differentiate between Remote Desktop for Administration and Remote Desktop Services (RDS). (3)
6. Focus on "Raid 5 Volume" in the context of dynamic disks. (3)

OR

- Compare RAID 0 and RAID 5 in terms of fault tolerance. (3)

Group-C

7. Describe the primary components of the Windows printing architecture. (5)
8. Analyze how printer priority can enhance the efficiency and management of a printing environment. (5)
9. Briefly describe the available volumes to configure in windows environment. (5)
10. Describe "Bridgehead Servers" and their role in Active Directory replication along with supported diagram. (5)
11. Analyze the impact of a single disk failure in a RAID 5 array configured with 4 disks. How does the system recover data? (5)
12. Evaluate the role of the Inter-Site Topology Generator (ISTG). What is the impact if the ISTG fails in a multi-site environment? (5)

OR

Evaluate the decision to use the AD Recycle Bin versus an Authoritative Restore for a deleted Organizational Unit (OU). When is the Recycle Bin insufficient? (5)

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