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BRAINWARE UNIVERSITY

Term End Examination 2024-2025

Programme – B.Sc.(ANCS)-Hons-2022

Course Name – Windows Server Administration II

Course Code - BNCSC602

(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) Choose the primary purpose of root hints in DNS.
 - a) To configure forwarders.
 - b) To resolve external DNS queries.
 - c) To define zone delegation.
 - d) To restrict zone transfers.
- (ii) Select the of root hint servers that are typically configured in Windows Server DNS.
 - a) 4
 - b) 13
 - c) 26
 - d) 52
- (iii) Choose the benefit of multiple root hint servers.
 - a) Load balancing.
 - b) Redundancy.
 - c) Faster query resolution.
 - d) Improved security.
- (iv) Choose the interval of updating the root hints by Windows Server DNS.
 - a) Every 24 hours.
 - b) Every 7 days.
 - c) Every time server restarts.
 - d) None of these.
- (v) Show the process to varify root hint configuration in Windows Server DNS.
 - a) Using nslookup command.
 - b) Checking Event Viewer logs.
 - c) Reviewing DNS debug log.
 - d) Running ipconfig /displaydns command.
- (vi) Choose the primary purpose of a caching-only DNS server.
 - a) Host authoritative DNS zones.
 - b) Provide DNS resolution for internal clients.
 - c) Store and retrieve DNS records from cache.
 - d) Perform zone transfers.
- (vii) Identify the DNS zone that is used to resolve names for a specific part of the DNS namespace but does not store any actual DNS records.
 - a) Primary
 - b) Secondary
 - c) Stub
 - d) Forward
- (viii) State the recommended number of Global Catalog servers per site for redundancy in a multi-domain forest.
 - a) At least one.
 - b) At least two.
 - c) At least three.
 - d) It does not matter; one is enough.

- (ix) Select from the following tools that can be used to perform an authoritative restore in Active Directory.
- | | |
|------------|-------------|
| a) dcdiag | b) ntdsutil |
| c) taskmgr | d) repadmin |
- (x) Discover the primary purpose of an NTP server.
- | | |
|--------------------------------------|-------------------------------|
| a) To synchronize network devices. | b) To route internet traffic. |
| c) To secure network communications. | d) To manage user accounts. |
- (xi) Select the protocol that is used by DHCP for dynamic IP address allocation.
- | | |
|---------|---------|
| a) TCP | b) UDP |
| c) HTTP | d) ICMP |
- (xii) Identify the message type that a DHCP client requests an IP address from a DHCP server.
- | | |
|-------------|----------------|
| a) Discover | b) Request |
| c) Offer | d) Acknowledge |
- (xiii) Discover the purpose of a scope in a DHCP server.
- | | |
|---|--|
| a) To define the range of IP addresses that can be assigned to clients. | b) To restrict access to certain network resources. |
| c) To specify the DNS server addresses. | d) To determine the lease duration for IP addresses. |
- (xiv) Find the port no that DHCP use to communicate with clients.
- | | |
|------------|-------------|
| a) Port 53 | b) Port 67 |
| c) Port 80 | d) Port 161 |
- (xv) Indicate the OSI layer where DHCP Relay agent operates at.
- | | |
|------------|------------|
| a) Layer 1 | b) Layer 2 |
| c) Layer 3 | d) Layer 4 |

Group-B

(Short Answer Type Questions)

3 x 5=15

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| 2. Define Root hints in DNS. | (3) |
| 3. List the primary features of authoritative DNS servers. | (3) |
| 4. Summarize the role of a DNS resolver. | (3) |
| 5. Implement a DNSSEC configuration for secure DNS resolution. | (3) |
| 6. Analyze the need for VPN. | (3) |

OR

- | | |
|---------------|-----|
| Analyze SLIP. | (3) |
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Group-C

(Long Answer Type Questions)

5 x 6=30

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| 7. Explain about the different DNS records. | (5) |
| 8. Outline the step-by-step procedure to configure a one-way trust in Active Directory. | (5) |
| 9. Explain the features of RRAS. | (5) |
| 10. Explain Failover Cluster and its working mechanism. | (5) |
| 11. Explain IP Security Architecture and its features. | (5) |
| 12. Analyze the different types of Active Directory Trusts based on transitivity and direction. | (5) |

OR

- | | |
|---|-----|
| Compare transitive and non-transitive trusts with examples. | (5) |
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