



## BRAINWARE UNIVERSITY

Course – BSc(HN)

Windows Server Administration (BHN402)

(Semester – 4)

**Time allotted: 3 Hours**

**Full Marks: 70**

[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 Questions)

10 x 1 = 10

1. *Choose the correct alternative from the following*
  - (i) What is the default port number of DNS?
    - a. UDP 67
    - b. TCP 53
    - c. UDP 53
    - d. TCP 57
  - (ii) Which type of authentication is used in Active Directory?
    - a. Kerberos
    - b. IPSec
    - c. Radius
    - d. None of these
  - (iii) The default group policy is stored in
    - a. Configuration NC
    - b. SYSVOL
    - c. SAM
    - d. None of these
  - (iv) What is the maximum size of NTDS.DIT?
    - a. 4TB
    - b. 16TB
    - c. 8TB
    - d. 16GB
  - (v) Which of the following network belongs to APIPA concept?
    - a. 169.252.254.0/16
    - b. 169.255.0.0/16
    - c. 169.16.0.0/16
    - d. 169.254.0.0/16
  - (vi) Which of the following server is by default ‘Global Catalog Server’?
    - a. Root Domain Controller
    - b. Member Server
    - c. DNS Server
    - d. Stand Alone Server
  - (vii) How much amount of hard disk space is required to install Windows Server 2012 Datacenter Edition?
    - a. 32GB
    - b. 1TB
    - c. 2TB
    - d. None of these

- (viii) Which of the following is not a domain wide role of FSMO model?
- |                          |                  |
|--------------------------|------------------|
| a. Infrastructure Master | b. RID Master    |
| c. PDC Emulator          | d. Schema Master |
- (ix) DHCP client searches for DHCP Server for IP address, using port number
- |           |           |
|-----------|-----------|
| a. UDP 67 | b. UDP 68 |
| c. TCP 67 | d. TCP 68 |
- (x) Which logical port is used in LDAP?
- |        |       |
|--------|-------|
| a. 53  | b. 68 |
| c. 389 | d. 67 |

### Group – B

(Short Answer Type Questions)

3 x 5 = 15

Answer any *three* from the following

- |    |  |     |
|----|--|-----|
| 2. | Differentiate between TCP and UDP.                   | [5] |
| 3. | Write the features of Active Directory.              | [5] |
| 4. | (a) What do you mean by a ‘Domain Tree’?             | [2] |
|    | (b) Write a short note on primary zone of DNS.       | [3] |
| 5. | What is the importance of PDC Emulator in FSMO Role? | [5] |
| 6. | Discuss Active Directory Domain Controller objects.  | [5] |

### Group – C

(Long Answer Type Questions)

3 x 15 = 45

Answer any *three* from the following

- |     |   |      |
|-----|---|------|
| 7.  | (a) Differentiate between DHCP Server and MADCAP Server.                                  | [2]  |
|     | (b) Explain with a diagram how a DHCP client gets the IP address from a DHCP Server.      | [10] |
|     | (c) What is the importance of ‘APIPA’?  | [3]  |
| 8.  | (a) Illustrate ‘DNS Iterative Query’ with a diagram.                                      | [8]  |
|     | (b) What is the utility of using disk quota in Server storage?                            | [3]  |
|     | (c) Why the stub zone is better than a secondary zone in DNS?                             | [4]  |
| 9.  | (a) Describe the physical and logical structure of Active Directory.                      | [10] |
|     | (b) Write short note on NTDS.DIT.   | [5]  |
| 10. | (a) Why do you need the ‘DHCP Authorization’ in a domain?                                 | [5]  |
|     | (b) What are the minimum requirements for installation of Active directory?               | [5]  |
|     | (c) Why Infrastructure Master should not be a Global Catalog Server?                      | [5]  |
| 11. | (a) Briefly discuss about the DNS name space.   | [8]  |
|     | (b) What is the role of ‘Active Directory partitions’ in an active directory environment? | [7]  |