BRAINWARE UNIVERSITY

Course –M.Sc. (HN)

Windows Server Infrastructure and Management (MHN202)

(Semester – 2)

Time allotted: 3 Hours   **Full Marks: 70**

[The figures 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 10 = 10

(Answer *any ten* questions)

1. Choose the correct alternatives for the following: (*Any ten*)

(i) Maximum number of primary partitions, supported by MBR, is

    (a) 4   (b) 24

    (c) 127   (d) 128

(ii) The zone, where ADDS & DNS are configured in the same system, is called

    (a) Active Directory Integrated Zone   (b) Primary Zone

    (c) Secondary Zone   (d) Stub Zone

(iii) Default UDP port number of DHCP is _____.

    (a) 67, 68   (b) 66, 67

    (c) 68, 69   (d) None of these

(iv) The NTDS is stored in _____

    (a) FAT 32   (b) FAT 16

    (c) NTFS   (d) FAT 32 & NTFS both.

(v) For spanned volume, maximum _____ disks can be connected

    (a) 3   (b) 8

    (c) 10   (d) 32

(vi) The Windows Server 2012 R2 requires minimum _____ RAM.

    (a) 512 MB   (b) 2 GB

    (c) 1 GB   (d) None of these

(vii) BOOTP converts _____ messages to _____ messages.

    (a) Unicast, broadcast   (b) Unicast, multicast

    (c) Broadcast, multicast   (d) Broadcast, unicast

(viii) Minimum _____ disk space is required for Windows Server 2012

    (a) 1 GB   (b) 2 GB

    (c) 4 GB   (d) None of these

(ix) The RAID-1 implies _____

    (a) Disk Mirroring   (b) Disk Striping

    (c) Spanned Volume   (d) None of these

(x) _____ command is used to update clients' IP address to a DNS Server.

    (a) ipconfig /renew   (b) ipconfig /flushdns

    (c) ipconfig /registerdns   (d) Both (b) & (c)

(xi) _____ is used for multimaster replication of ADDS in multiple domain controllers.

    (a) Replication Service   (b) NTREPL

    (c) COPY   (d) None of these

Group – B

(Short Answer Type Question)   3 x 5 = 15

(Answer *any three* questions)

2. Explain the 'IP address renewal' process of client PC in DHCP Server.   [5]

3. (a) Explain - Forward Lookup Zone.

   (b) What is the role of 'Active' button in DHCP Scope?

   (c) What is 'Stub Zone'?   [2 + 2 + 1]

4. Why do you require the 'Authorization' in DHCP Server?   [5]

5. (a) Write a short note on '80/20' rule in DHCP Server.

   (b) Write a short note on 'Application Partition'. [3 + 2]

6. What is the role of "DHCP Active" button in the scope option? [5]

Group – C

(Long Answer Type Question) 3 x 15 = 45

(Answer *any three* questions)

7.(a) Explain the features of Windows Server 2012.

   (b) Explain the 'DORA' process in DHCP.

[5 + 10]

8. (a) Write a short note on the followings:-

   Encryption, FQDN

   (b) Differentiate between DHCP & BootP.

   (c) Write a short note APIPA. [(2 x 3) + 4 + 5]

9. (a) Discuss about the physical structure of ADDS.

   (b) Explain the role of 'DHCP Relay Agent (DRA)'.

   (c) Differentiate between 'Simple Volume' & 'Spanned Volume'.

[8 + 3 + 4]

10. (a) Discuss briefly about the 'DHCP Scope balancing' process.

    (b) 'In Windows Server 2012, NTDS plays very important role' - justify.

    (c) Write a short note on fault tolerance. [5 + 5 + 5]

11. a) What is the usefulness of "Reverse Lookup Zone" in DNS?

    b) What is "Zone Transfer"?

    c) Write a short note on "Group Policy". [5 + 5 + 5]