



BRAINWARE UNIVERSITY
Course – MSc(HN)
Operating System Technologies (MHN101)
 (Semester – 1)

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 Question)

1 x 10 = 10

1. Choose the right answers from the followings:-

I) RARP is responsible for resolving _____.

(a) IP to MAC (b) MAC to IP (c) MAC to Name (d) Name to MAC

II) 172.16.0.251 is _____ type IP address.

(a) Class C (b) Class D (c) Classless (d) None

III) VHD stands for _____.

(a) Virtual Hard-disk Drive (b) Virtual Hard-disk Device (c) All (d) None

IV) Name of the boot loader file in Windows 7 is _____.

(a) BOOTMGR.COM (b) BOOTMGR.EXE (c) BOOTNGR.EXE (d) None

V) DNS resolves _____.

(a) MAC to IP (b) Name to IP (c) All of the above (d) None of the above

VI) _____ is the kernel file of Linux operating system.

(a) vnlunuz (b) vmlinuz (c) vmlinux (d) vnlinux

VII) 'TRACERT' command belongs to _____.

(a) IGMP (b) ICMP (c) DHCP (d) None of the above

VIII) 'Encryption' is a feature of _____.

(a) EXT2 (b) FAT32 (c) NTFS (d) None of the above

IX) 127.0.0.1 is called _____ address.

(a) Loop-free (b) Loop-back (c) Public (d) None of the above

X) The MAC sublayer is a part of _____ layer of ISO-OSI Model.

(a) Network (b) Presentation (c) Data Link (d) None of the above

Group – B

(Short Answer Type Question)

(Answer *Any three*)

3 x 5 = 15

2. What is the relevance of “System Reserved Partition” in Windows 7.
3. Write the names and functions of the Windows 7 Ultimate boot files.
4. Explain the function of DHCP.
5. Write a short note on 'APIPA'.
6. Briefly discuss the features of FAT16 file system.

Group – C

(Long Answer Type Question)

(Answer *Any three*)

3 x 15 = 45

7. a) What is 'Firewall'?
 b) Explain the types of firewall.
 c) Describe any one firewall type.
 d) Write a short note on 'IMAP4'. 3 + 2 + 5 + 5
8. a) Write short notes on *any five* of the followings:-
 HTTP, FTP, ARP, Telnet, NTP, TFTP
 b) Differentiate – TCP vs. UDP.
 c) Explain the importance of 'Subnet Mask'. (2 x 5) + 3 + 2
9. a) Define – Operating System.
 b) Explain the term 'kernel' and 'shell' of OS.
 c) Differentiate between 'Multitasking OS' and 'Multiprocessing OS'.
 d) Give two examples of 'Multiprocessing'. 3 + (2 + 2) + (3 + 3) + 2
10. a) Describe – (i) FAT32 (ii) NTFS.
 b) “FAT16 supports upto 2 GB drive space” - justify it.
 c) What are the utilities of SMTP and POP3.
 d) Write a short note on “Microsoft Outlook Express”. (3 + 3) + 3 + (2 + 2) + 2
11. a) Describe the concept of “Partition” in Hard Disk under MBR format.
 b) What is “GUID Partition Table (GPT)”?
 c) Explain the importance of 'Virtual Memory'. 5 + 5 + 5