



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 Questions)

10 x 1 = 10

1. *Choose the correct alternative from the following*

(i) POST is related to_____.

- | | |
|---------------|-----------------|
| a. BIOS | b. Software |
| c. IP address | d. All of these |

(ii) FTP works in_____.

- | | |
|----------------------|-----------------------|
| a. Application layer | b. Presentation layer |
| c. Network layer | d. Transport layer |

(iii) 172.16.16.12 is a class B_____.

- | | |
|-----------------|---------------|
| a. Private IP | b. Public IP |
| c. Broadcast IP | d. Unicast IP |

(iv) .exe is an extension of_____.

- | | |
|---------------|------------------|
| a. Linux file | b. Windows file |
| c. Image file | d. None of these |

(v) System restore is useful for_____.

- | | |
|--------------------|------------------|
| a. copy | b. delete |
| c. system recovery | d. None of these |

(vi) NTLDR is_____.

- | | |
|---------------------|---------------------|
| a. Boot loader | b. Operating system |
| c. Linux swap space | d. Network file |

- (vii) Which protocol does the “ping” command work_____.
- | | |
|---------|---------|
| a. IGMP | b. ICMP |
| c. POP3 | d. IMAP |
- (viii) VHD is useful for_____.
- | | |
|-------------------|-----------------|
| a. system backup | b. data backup |
| c. system restore | d. data restore |
- (ix) .sh is a_____.
- | | |
|-------------------|----------------|
| a. Windows file | b. Linux file |
| c. Network device | d. Boot loader |
- (x) HTTP port no is _____.
- | | |
|--------|---------|
| a. 80 | b. 90 |
| c. 255 | d. 4069 |

Group – B

(Short Answer Type Questions)

3 x 5 = 15

Answer any *three* from the following

- | | |
|--|---------|
| 2. Write down the booting sequence step by step and briefly explain briefly. | [5] |
| 3. What is BIOS? What is bootloader and active partition? | [2 + 3] |
| 4. What do you mean by swap area in Linux? What is ‘/boot’? | [3 + 2] |
| 5. What are the basic requirements of a network to be functional? | [5] |
| 6. What are the different backup techniques which exist in Windows operating system? | [5] |

Group – C

(Long Answer Type Questions)

3 x 15 = 45

Answer any *three* from the following

7. (a) What is the virtual memory in operating system? [5]
(b) Write down the evolution history of windows and Linux operating system. [10]
8. (a) Briefly explain the OSI layers in practical approach. [5]
(b) Explain the requirements of different networking devices. [10]
9. (a) What is wireless networking? [5]
(b) Write down the detail steps to setup a wireless connectivity in windows operating system. [10]
10. Write down the details step by step to install a Linux system in manual partitioning method and also keep the option for dual booting. [15]
11. Write short notes (Any three) [3X5]
(a) Backup techniques in Windows operating system.
(b) System Restore in Windows operating system.
(c) FTP.
(d) IP addressing.