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MCS-022

MCA (Revised) / BCA (Revised)

Term-End Examination, 2019

**MCS-022 : OPERATING SYSTEM CONCEPTS AND
NETWORKING MANAGEMENT**

Time : 3 Hours

Maximum Marks : 100

Weightage : 75%

Note : Question no. 1 is Compulsory. Answer any three questions from the rest.

1. (a) What is GUI ? Briefly explain any three common GUI. [8]
- (b) Briefly explain the purpose of the following directories of Linux operating system : [4]
- (i) /lib
 - (ii) /sbin
 - (iii) /etc
 - (iv) /bin
- (c) What is distributed operating system ? Explain its advantages in detail. [6]

- (d) Explain process of configuring TCP/IP in Windows 2000. [10]
- (e) What is Guided Transmission media ? Explain which transmission media to be used while surfing the net using WiFi. [5]
- (f) What is Active Directory ? Explain how to secure a guest account in Windows 2000. [7]
2. (a) What is Firewall ? Explain any three types of vulnerabilities, a Firewall can protect. Briefly explain any three limitations of Firewall. [10]
- (b) What is IPSec ? Briefly explain its features and its Windows 2000 components. Also list its implementation options. [10]
3. (a) What is Virtual Machine Multiprogramming ? How is it different from conventional Multiprogramming ? [5]
- (b) What is Repeater ? Explain its uses. At which layer of OSI model Repeater operates ? [5]

- (c) Briefly explain how network resources are shared in Windows XP, with the help of examples. [10]
4. (a) What is Multithreading ? How multithreading is different than symmetric multiprocessing ? [10]
- (b) Explain security goals of computer systems. Briefly explain major security threats. [10]
5. Write **short notes** on the following : [4x5=20]
- (a) RAID and its levels
- (b) Classification of Advanced OS
- (c) Packet Filters
- (d) DNS

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