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.

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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 — *lily*

    (ii) / sbin —

    (iii) /etc — *expand*

    (iv) /bin *trwl*

    (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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