

MCA (Revised) / BCA (Revised)

Term-End Examination

MCS-022 : OPERATING SYSTEM CONCEPTS AND NETWORKING MANAGEMENT

Time : 3 Hours]

[Maximum Marks : 100

(Weightage 75%)

Note: Question number 6 is compulsory. Answer any three questions from the rest.

1. (a) What is 3D GUI? Explain any three major components on development environment of GUI. 8
- (b) Briefly explain the purpose of the following directories of Linux operating system: 4
 - (i) /lib
 - (ii) /dev
 - (iii) /tmp
 - (iv) /user/bin
- (c) What is computer network? What is the need of different network topologies? Explain structure of Bus topology and star topology.

- (d) Why memory management is required in OS? Explain use of virtual memory in Linux. 6
- (e) Explain how Group Account Administration is done in Windows 2000. Also explain Group Policy Objects. 7
- (f) What is vulnerability? How is it different from threat? Briefly explain process of intrusion detection. 8
2. (a) Explain registry management in windows NT. 6
- (b) Explain how Drives are shared in Windows XP. 4
- (c) What is Domain Name System (DNS)? Briefly explain design goals and design principles of DNS.
3. (a) What is virtual machine? Explain uses and advantages of virtual machine. 7
- (b) Briefly explain functionalities of seven layer of OSI reference model. 7

- (c) Explain Microkernel, Multithreaded & symmetric multiprocessing operating system.
4. (a) Explain process of Linux Network Server Setting. 8
- (b) What is optical fiber? Explain advantages of it. 6
- (c) Briefly explain following application Layer Protocols: 6
- (i) FTP
- (ii) TELNET
5. Write short notes on the following: 4×5=20
- (a) X windows
- (b) Simple Network Management Protocol (SNMP)
- (c) Backups and Restoration
- (d) Computer Viruses