No. of Printed Pages : 3   **MCS-022**

MASTER OF COMPUTER APPLICATION (M.C.A.) (REVISED)

Term-End Examination

June, 2021

MCS-022 : OPERATING SYSTEM CONCEPTS AND NETWORKING MANAGEMENT

Time : 3 Hours   *Maximum Marks : 100*

Weightage : 75%

Note : (*i*) *Question No. **1** is compulsory.*

(*ii*) *Attempt any **three** questions from the rest.*

1. (a) Write the LINUX commands for the following :   1×10=10

    (i) To copy a file from one directory to another.

    (ii) To move a file from one directory to another.

    (iii) To remove/delete a file from a subdirectory.

(iv) To print contents of a file using line printer.

(v) To search and locate a file based on the owner, access permission, created date etc.

(vi) To change the password

(vii) To create a directory

(viii) To change from current directory to a new working directory

(ix) To list of current users logged in the system.

(x) To execute a command at given time.

(b) What are the three strategies that can be used to authenticate a user to a computer system ? Discuss how authentication can be done using hardware tokens.   10

(c) Write a shell script to select all the files of a source directory and copy them to a new directory specified by the user.   10

(d) Explain the process of how TCP/IP protocol is configured in Windows XP.   10

2. (a) List and discuss the pre-installation checks to be done before installing LINUX.   10

(b) With respect to fault tolerant system, explain the following techniques : 10

(i) Disk mirroring

(ii) RAID

3. (a) Explain the registry backup management to secure the registry. 10

(b) Explain the file-system NTFS 5.0 of Windows 2000. 6

(c) Define mapped drive. Describe how to assign a drive letter to a network computer (or) folder. 4

4. (a) Describe the layered architecture of Windows 2000 O/S. 10

(b) Explain the process and thread management in LINUX O/S. 10

5. Write short notes on the following : 4×5=20

(a) Kerberos management in Windows 2000

(b) Pipes and filter commands in LINUX

(c) Virtual private network

(d) User Datagram Protocol

MCS–022