MCS-022

MCA (Revised) / BCA (Revised)
Term-End Examination
09241   June, 2017

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) Explain the features of User mode and Kernel mode of Windows 2000 operating system.   5

   (b) List and explain the significance of any five networking devices.   7

   (c) Explain the file access control methods provided by Linux operating system. Give an example for each.   8

   (d) Write the step-by-step procedure to configure domain name server in Linux operating system.   8

   (e) List and describe the different security features in Windows 2000 operating system.   10

   (f) Define Distributed Operating System.   2

2. (a) Write a Linux shell script that will convert all numeric digits present in a text file into "*". The path of the text file would be given by the user. 10

(b) Explain the following with reference to file organisation of Windows 2000 operating system : 10

(i) File Replication Service

(ii) NTFS

(iii) FAT 16

(iv) FAT 32

3. (a) Which protocol is used by TFTP at the transport layer ? Also, give any two advantages of TFTP and FTP. 5

(b) Discuss the importance of "Backup Domain Controller" in Windows 2000 operating system. 5

(c) What is virtual memory ? Explain the abstract model of virtual to physical address mapping with reference to Linux operating system. 10

4. (a) Write the steps to change the password in Linux ? What are the precautions that should be taken while choosing a password ? 5

(b) Describe the concept of encryption using EFS services. 5

(c)   What is a filter ? Give two examples to demonstrate the use of filters in Linux/Unix.   5

(d)   Explain the output of the following Linux/Unix commands :   5

    (i) $ date who

    (ii) $ diff abc.txt   xyz.txt

    (iii) $ man who

    (iv) $ ls -a

    (v) $ pwd

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

(a)   RAID Levels

(b)   TCP/IP Model

(c)   SNMP Architecture

(d)   Virtual Private Network

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