MCS-022(S)

MCA (Revised) / BCA (Revised)
Term-End Examination
December, 2018

03283

MCS-022(S) : 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 Kernel mode in Windows 2000 ? Also, differentiate the role and responsibilities of 'user mode' and 'kernel mode' in Windows 2000 system. *10*

   (b) What is the significance of IPSec ? Explain its features, components and implementation options. *10*

   (c) What are the components of Domain Name Server ? Explain how the Domain Name Server is configured in LINUX operating system. *10*

(d) Explain, how an optical fiber cable works. Also, discuss its advantages and disadvantages over coaxial cable. *10*

2. (a) Explain the functions of a router. Explain its working with the help of an example. *10*

(b) Draw a diagram of the SNMP architecture and explain how it is used to manage network devices. *10*

3. (a) Explain the various file access control mechanisms provided by Linux. Give suitable example for each mechanism. *10*

(b) Write a shell script in Linux named "converter" that will take a number in metres and convert into kilometres or centimetres. Ensure that your script carries out basic error checking. *10*

4. (a) Explain the different RAID levels. What are the limitations of disk striping ? *10*

(b) Explain the steps to configure print server on Windows 2000. Also, explain the importance of print queue management. *10*

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

(a) Virtual Memory

(b) Group Policy of Windows 2000

(c) NTFS

(d) Intrusion Detection System

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