

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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