MCA (Revised) / BCA (Revised)

Term-End Examination

February, 2021

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.*

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1. (a) Draw a diagram of Simple Network Management Protocol (SNMP) architecture and show how it is used to manage network devices. *10*

(b) List and describe various security features in WINDOWS 2000 O/S. *10*

(c) Write LINUX/UNIX commands for the following : *5×2=10*

(i) To list all the files in a directory that have 3 characters in the file name.

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(ii) To set file permissions of a file ABC to *read*, *write*, *execute* for all (user, group and others)

(iii) To kill the process using its process-id.

(iv) To rename an existing directory.

(v) To route the command's output to the terminal and to a file using "**tee**" command.

(d) Explain the abstract model of virtual memory used in Linux O/S with the help of a suitable diagram to explain its working. *10*

2. (a) List and explain the 3 file systems supported by WINDOWS 2000. Also describe what is file replication service. *10*

(b) What is stored in the Registry of WINDOWS XP ? Discuss various components of a Registry. *5*

(c) What is packet switching ? What are its 2 approaches ? Briefly describe. *5*

3. (a) List and explain the different states of a process in LINUX. *6*

(b) What is a Repeater ? At which level of OSI model is it used and how ? *6*

(c) Define a protocol. List and explain any two application layer protocols. *8*

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4. (a) What are the security services provided by IPsec ? Discuss the two IPsec components in WINDOWS 2000. Also explain the policy options for IPsec implementation. *10*

(b) Explain the following w.r.t. DNS : *10*

(i) DNS Architecture

(ii) DNS Zones

5. Write short notes on any ***four*** of the following : *4×5=20*

(a) "Hardening" in WINDOWS 2000 O/S

(b) Unguided Transmission Media

(c) Differences between "Diff" and "Cmp" commands of LINUX with examples

(d) Memory Management in LINUX O/S

(e) Firewalls

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