

Roll No.

Total Pages : 02

BT-5/D-18 35158
LINUX OPERATING SYSTEM
IT.301.N

Time : Three Hours]

[Maximum Marks : 75]

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

Unit I

1. Why operating system is needed in a Computer System ?
How is Linux different from other popular operating system ? Discuss.
2. (a) What do you mean by apt package installation and removal of software packages ? Explain.
(b) How users and user groups are maintained in Linux ? Discuss.

Unit II

3. What is Address Resolution Protocol ? Explain in `ipconfig` and `netstat` commands of Linux using suitable example.

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4. (a) What is Remove Procedure Call (RPC) ? How is RPC carried out on network file system ? Discuss.
- (b) What do you mean by Centralized authentication system ? How can you share users and other information on network ? Explain.

Unit III

5. Why to integrate Linux and Windows on same system ?
What are the different approaches for installing more than one operating system on one machine.
6. Explain the following in shell scripting :
 - (i) awk
 - (ii) sed
 - (iii) grep
 - (iv) scheduling job

Unit IV

7. Explain the following :
 - (i) TCP-Wrappers
 - (ii) IP-Firewalls
 - (iii) NAT and DMZ.
8. (a) How to setup a email server on Linux ? Explain.
(b) What is host name on DNS ? How to configure host names and cache techniques of DNS ?

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