

Roll No. ....

Total Pages : 3

**BT-7/D-17**

**37021**

**LINUX FOR INFORMATION  
TECHNOLOGY APPLICATIONS**

Paper – IT-451

Time : Three Hours]

[Maximum Marks : 75

**Note :** Attempt any *five* questions. All questions carry equal marks.

- 1. (a) Differentiate between Linux GRUB and LILO boot loaders. 8
- (b) What is process ? Describe various types of commands used in Linux Operating System. 7
- 2. (a) Discuss post-install system customization and upgradation stages for Linux O.S. 8
- (b) What is shell ? What are the various shells there in Linux O.S. ? Explain. 7
- 3. (a) What is subnet ? How is a Linux machine configured on the network ? 8
- (b) Discuss the following network services tools :
  - (i) telnet.
  - (ii) ftp.
  - (iii) rcp. 7

- 4. (a) Describe NFS installation and configuration. How is security provided for the file system sharing over the network ? 8
- (b) Describe Network Information Service Installation and configuration for server and client sides. 7
- 5. (a) How is Samba installation and Configuration performed ? Explain. 8
- (b) How is accessing Windows file system from linux O.S. and vice versa ? Explain. 7
- 6. (a) What is shell scripting ? Describe bootup and login process sequence in linux O.S. 8
- (b) Write short notes on the following :
  - (i) awk.
  - (ii) grep.
  - (iii) sed. 7
- 7. (a) Write short notes on the following :
  - (i) IP-Firewalls.
  - (ii) NAT.
  - (iii) DMZ. 8
- (b) What is SMTP server ? Discuss SMAP and POP3 e-mail servers. 7

8. (a) What is Message Passing Interface (MPI) for parallel programming in Linux Computational Clusters ? Describe MPI compilation and installation. 8
- (b) How is the configuration of master, slave and caching DNS servers with BIND9 ? Discuss. 7
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