

Roll No. ....

Total Pages : 2

**BT-6/M-21**

**46212**

**LINUX OPERATING SYSTEM**

**Paper-PC-IT-304A**

Time : Three Hours]

[Maximum Marks : 75

**Note :** Attempt *five* Questions, selecting at least *one* question from each unit.

### **UNIT-I**

1. (a) What is semi-automatic system installation? (7)
- (b) What is rebooting process and write the steps involved in shutting down the process ? (8)
2. (a) How Linux kernel provide support for 'Signals' and write about kill, raise, alarm, pause, abort and sleep functions used in Linux signals ? (8)
- (b) Explain the disc partitioning. (7)

### **UNIT-II**

3. Explain the following terms :
  - (a) NIS server
  - (b) NFS server
  - (c) IPv4 address
  - (d) telnet
  - (e) ftp (15)

4. What is Network file system? Explain the two important NFS configuration files for using the features of NFSv4. (15)

### UNIT-III

5. (a) What is Samba? What is the security or authentication mode for Samba server? (8)
- (b) What are the major differences between Windows 2000 and Linux operating system? (7)
6. (a) Write startup and all run levels of Linux OS. (7)
- (b) Write a shell script to count the number of lines in a text file without using 'wc' command. (8)

### UNIT-IV

7. (a) What are the different types of DNS server used in Linux OS? (7)
- (b) Explain the procedure or steps for E-mail transaction with the help of diagram. (8)
8. Explain the following : **TOPPERWorld**
- (a) NAT
- (b) DMZ
- (c) IP-firewalls
- (d) PGP/GPG
- (e) SMTP (15)
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