

Roll No. ....

Total Pages : 02

**BT-6/M-22**

**46212**

## **LINUX OPERATING SYSTEM**

**PC-IT-304A**

**Time : Three Hours]**

**[Maximum Marks : 75**

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

### **Unit I**

1. (a) What is Operating System ? Explain different types of command in Linux OS. 7
- (b) What do you mean by shell in Linux OS ? Write different types of shell used in Linux. 8
2. (a) Differentiate between LILO and GRUB boot loaders. 7
- (b) Explain the APT package installation, remove, upgrade and query. 8

### **Unit II**

3. What is NIS and NFS in Linux ? Explain in detail and also write merits and demerits of both. 15
4. Explain TCP/IP protocol and address resolution protocol (ARP) in detail with example. 15

### Unit III

5. (a) What is Shell Script ? Write a shell script to check whether the string is palindrome or not. 8
- (b) What is LDPA and why is it called light weight ? 7
6. Explain the following : 15
- (a) SMB/CIF protocols
- (b) Domain Controller
- (c) Dual boot running windows and Linux on same PC.

### Unit IV

7. (a) What is DMZ and why would we use it in Linux OS ? 7
- (b) Explain Intrusion detection system in Linux. 8
8. Differentiate between SMTP, IMAP and POP3 servers in detail. 15

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