

Roll No. ....

Total Pages : 02

**BT-7/M-20**

**37147**

**UNIX & LINUX PROGRAMMING**

**CSE-401-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. Compare and contrast Unix commands like zip, unzip, pack, unpack, compress, uncompress. **15**
2. What are shell scripts ? Describe Linux file system structure. How shell acts as command processor ? **15**

### **Unit II**

3. What are regular expressions and filters ? Justify with examples. What are quantifiers ? Write any *one* program using awk or perl. **15**
4. How is parallel compression with Xdelta utility performed for data reduction ? **15**

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### **Unit III**

5. What is chunking of data files ? Differentiate between fixed-size and variable-size content-defined chunking. **15**
6. Compare static and dynamic memory management. Also discuss static and dynamic libraries. What are various modes of vi editor ? Explain. **15**

### **Unit IV**

7. What is initialization of processes ? Write also about job control—at, batch, cron and time. How starting and stopping of processes occurs in Linux O.S ? Explain. **15**
8. Describe various networking tools like telnet, ftp and firewalls. **15**