

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**

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**