

Roll No.

Total Pages : 02

BT-7/D-19

37147

UNIX AND LINUX PROGRAMMING

CSE-401

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. How is shell used as command processor ? Briefly tell about shell scripting. Briefly explain about i-nodes and its structure. 15

2. What are shell variables ? Briefly tell about shell programming. What is threading in Linux ? 15

Unit II

3. How is programming done with awk and perl in unix ? Illustrate with suitable examples. 15
4. How is parallel compression performed with Xdelta utility ? 15

Unit III

5. What do you mean by static and dynamic libraries ? How is dynamic memory management performed in Linux ?
15
6. How is boundary-shifting problem of fixed-size chunking resolved by content-defined chunking ? What is frequency based chunking ?
15

Unit IV

7. Explain the various components of PCOMPRESS utility in detail.
15
8. What is Linux I/O system ? Discuss the various networking tools of Linux OS like telnet, ftp and firewalls.
15

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