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Roll No.

Total Pages : 3

BCA/D-21

1238

LINUX AND SHELL PROGRAMMING Paper-BCA-CTIS-108

Time : Three Hours]

[Maximum Marks: 60

Note : Attempt any *five* questions in all, selecting at least *one* question from each unit including Question No. 1 is compulsory.

Compulsory Question

- **1.** (a) Write the following relational expression in Korn shell.
 - (i) x != y
 - (ii) x = = y.
 - (b) What are environmental variables?
 - (c) Explain foreach loop in C-shell.
 - (d) What is Terminal File?
 - (e) Write a note on external linux commands.
 - (f) Explain case-esac statement in Korn shell. $(2 \times 6 = 12)$

UNIT-I

- **2.** (a) Give a brief sketch of structure of Linux Operating System?
 - (b) What are the features of Linux operating system?

(6,6)

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- **3.** (a) Distinguish between time sharing and client-server environment?
 - (b) What is a shell ? Explain its types . (6,6)

UNIT-II

- 4. Write syntax and purpose of following commands :
 - (a) uname.
 - (b) lock.
 - (c) rd.
 - (d) cp.
 - (e) cmp.
 - (f) Is.

(2×6=12)

- 5. (a) What is the purpose of following directories :
 - (i) \usr.
 - (ii) \bin.
 - (iii) \temp.
 - (b) How do you find a line that matches a regular expression using awk command ? (6,6)

UNIT-III

- **6.** (a) Name two categories of regular files? Does Linux recognize the difference between these two categories?
- (b) Write a shell program to check a number is prime or not prime. (6,6)
- 7. Explain :
 - (a) tee command.
 - (b) ftp and its importance in Linux.
 - (c) What are pipes? (4,4,4)

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2

UNIT-IV

- 8. (a) Brief about the common commands used in vi editor.
 - (b) Define grep command. Write a grep command to display the lines which does not match the given pattern. (6,6)
- **9.** (a) How do you use a variable in Korn shell? Describe different types of variables used in Korn shell.
 - (b) Write a shell program to display a given number is Armstrong or not. (6,6)

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