IV Semester B.C.A. Examination, Feb./March 2010
UNIX AND SHELL PROGRAMMING

Time : 3 Hours

Max. Marks : 80

Instructions : 1) Answer **all** questions in Part **A**, **6** out of **8** questions in Part **B**, and **3** out of **5** questions in Part **C**.
2) Part **A**: Questions from **1** to **8** carry **1** mark and **9** to **14** carry **2** marks **each**.
3) Part **B**: **Each** question carries **5** marks.
4) Part **C:** Each question carries **10** marks.

PART – A

1. Unix is written in _____ language.

2. Shell acts as an interface between _____ and _____ .

3. Name the different types of users in UNIX.

4. Which command is used to change the password of user ?

5. Which command is used for pattern matching ?

6. How do you find the number of users logged in ?

7. What is the function of the wc command in UNIX ?

8. What are the three modes of operations of vi ?

9. Explain the different types of files in UNIX.

10. Explain Cut command with options.

11. What are pipes ? Give one example of its usage?

12. What is the function of cat command in UNIX ?

13. Explain While loop with syntax.

14. Explain cp command with example.

PART – B

1. Explain the salient features of UNIX.

2. With an example explain the case statement in a shell program.

3. Explain Input / Output redirection.

4. Explain briefly supervisor privileges.

5. Explain any five process related commands.

6. Write a shell program to find the number of vowels in a given string.

7. Explain with an example the following UNIX commands

   1) du   2) tail   3) pwd   4) rmdir   5) wc

8. Explain the relational and logical operators used in shell programming.

PART – C

1. With a neat figure explain UNIX file system.

2. Explain the following communication commands with suitable example

   1) write   2) mail   3) wall

3. Briefly explain the Boot procedure.

4. Explain Awk and Sed command with options and examples.

5. a) Write a shell program to find sum of digits of given number.

   b) Write a program to find factorial of a given number.

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