MCA – 34

III Semester M.C.A. Examination, Feb./March 2010
UNIX AND SHELL PROGRAMMING

Time : 3 Hours Max Marks : 100

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

PART – A

1. What is a kernel?
2. Which command is used to copy the content of one file into another ?
3. Name the different types of users in UNIX.
4. Which command is used to display the list of hidden files ?
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. What is the difference between internal and external commands in unix ?
11. What are pipes? Give one example of its usage.
12. What is the differences between absolute pathname and relative pathname ?
13. Explain while loop with syntax.
14. Explain cp command with example.

P.T.O.

PART – B

1. Explain the salient features of UNIX.
2. With an example explain the decision statement in a shell program.
3. Explain Input / Output redirection.
4. Explain briefly supervisor privileges.
5. Explain the activities performed by the shell in its interpretive cycle.
6. Write a shell program to find the number of vowels in a given string using case statement.
7. Explain the grep commands with options and examples.
8. Explain job control in detail.

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 first 'n' natural number.
   b) Write a shell program to find factorial of a given number.
6. Explain cpio and tar command in detail with example.

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