(A-9) **SARDAR PATEL UNIVERSITY**
BCA - SEMESTER - V (CBCS)(Regular)
SUB: - US05EBCA01 (Basics of UNIX Operating System) *SC*

Friday, 20 March 2015
10.30 am to 12.30 pm   **Total Marks: 70**

NOTE: Give diagrams or examples where required

Q - 1   Attempt Following: [10]
1. _____ directory contains executable files for most of the
   UNIX commands.

   A   lib   C   dev
   B   bin   D   tmp

2. When scheduler submits a process to the queue, process is said to be
   in _____ state.

   A   Hold   C   Run
   B   Submit   D   ready-to-run

3. How do you get help about the command "cp"?
   A   help cp   C   cp ?
   B   man cp   D   cat cp

4. How can you append the output of a command to a file?
   A   command < file   C   command > file
   B   command << file   D   command >> file

5. The cut command is used to
   A   capture a file   C   copy a file
   B   print a file   D   filter a file

6. _____ pathname uses the current directory as point of reference
   for the file.
   A   Relative   C   Both A and B
   B   Absolute   D   None of these

7. For logical AND operator _____ option is used
   A   –a   C   –o
   B   –c   D   -d

8. Which of the following are used as loops?
   A   for   C   Both A and B
   B   while   D   None of these

9. _____ format eliminate the need for delimiters.
   A   Fixed length file   C   Both A and B
   B   Delimited file   D   None of above

10.   Full form of grep is _____.
   A   Globally search with Regular Expressions and Print
   B   Global Read Expression and Print
   C   Goto Regular Expression and Print
   D   None of above

Q - 2 Attempt following short questions (ANY TEN)   **[20]**
1. List Weaknesses of UNIX like Operating system.
2. Define following:
   a. Remote Access   b. Remote Login
3. List Modes of Operation of vi Editor.
4. Explain quoting in brief.
5. What is absolute path? Give examples.
6. Discuss echo command n brief.
7. Write syntax of case statement.
8. What do you mean by debugging a script?
9. What is Shell script?
10. Discuss PS command in brief.
11. What is Filtering? Give two examples of it.
12. Explain any two options of grep command.

Q - 3 Answer the following long questions:
[A] Write brief history of UNIX operating system.   **[05]**
[B] Describe in details: **[05]**
    a. Kernel   b. Multiuser OS

OR

Q-3 Answer the following long questions:
[A] Explain concept of CUT-COPY-PASTE in vi editor.   **[05]**
[B] Describe in details: **[05]**
    a. Environment Variable   b. Multitasking OS

Q - 4 Answer the following long questions:
[A] Write detail note on: Input / Output redirection   **[05]**
[B] What is path? Explain Absolute and Relative path with example.   **[05]**

OR

Q - 4 Answer the following long questions:
[A] Write note on: Quoting and Escaping.   **[05]**
[B] Explain basic filters: cat command   **[05]**

Q-5 Answer the following long questions:
[A] Differentiate if and case statement.   **[05]**
[B] List all control statements and explain one of them in details.   **[05]**

OR

Q-5 Answer the following long questions:
[A] Explain for loop with suitable examples.   **[05]**
[B] Explain use of shell script. How to create and execute shell script. **[05]**
    Explain with example.

Q-6 Answer the following long questions:
[A] Explain substitution facility of sed filter.   **[05]**
[B] How to process output of ls command?   **[05]**

OR

Q-6 Answer the following long questions:
[A] Explain expr in details.   **[05]**
[B] Discuss grep with example.   **[05]**

X-X-X-X-X-X-X-X