



JA-3779

Third Year B. C. A. (Sem. V) Examination

March/April – 2013

502 : Unix & Shell Programming

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

नीचे दशावेक निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	
T. Y. B. C. A. (SEM. 5)	
Name of the Subject :	
502 : UNIX & SHELL PROGRAMMING	
Subject Code No. : 3 7 7 9	Section No. (1, 2, ...): Nil
	Student's Signature

- (2) Figures on the right indicate marks.  
(3) Take assumption whenever necessary.

- 1 Answer in short : (any seven) 14
- (i) What is the purpose of /bin directory of Unix file system ?
  - (ii) What do you mean by a daemon ? List out them. How will you kill a daemon ?
  - (iii) Explain -u, -n, -r options of sort.
  - (iv) List out functions of kernel.
  - (v) Define redirection. List out the symbols used for redirection.
  - (vi) Differentiate between \$@ and \$\*.
  - (vii) When do wild card characters lose their meaning ?
  - (viii) List default file as well as directory permission when making, has been set by the command as umask 333.
- 2 Answer the following : (any two) 14
- (i) Explain the directory structure of UNIX.
  - (ii) Explain booting sequence with init process.
  - (iii) Explain the modes of vi editor.
- 3 (a) Discuss Relative and Absolute File Access Permissions with example. 6
- (b) Write a shell script to check the entered no is palindrome or not. 5

OR

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[Contd...

- (b) Write a shell script that accept two decimal numbers from keyboard and display their sum in hexadecimal from. Make proper validation. 5
- (c) Explain at and batch commands. 3
- 4 (a) What do you mean by link ? Give the difference between soft link and hard link. Also write disadvantage when using soft link. 5

OR

- (a) Explain Insert, Append and change command of sed. 5
- (b) Write commands for following : (any five) 5
- (i) Display lines 10 to 15 from files x1
  - (ii) Display last word of each line from a file x1.
  - (iii) To count number of characters in last line of line x1.
  - (iv) To count number of words in line 40 thought 60 of file f1.txt.
  - (v) To delete all special characters from the file x1.
  - (vi) Display all line that start with 'let', from a file x1.1, e or t may be in any case.
- (c) Explain any two commands from following : 4
- (i) tee
  - (ii) In
  - (iii) bc
- 5 (a) Write a command using grep or egrep for the following : (any five) 5
- (i) Display the lines which are not starting with 2 at the beginning.
  - (ii) Display lines having exactly 50 character of file X<sub>1</sub>.
  - (iii) Count number of blank lines in file X<sub>1</sub>.
  - (iv) Display lines having at least one \* character in file X<sub>1</sub>.
  - (v) Display lines from file X<sub>1</sub> that containing string "UNIX" or "unix" or "Unix".
  - (vi) Display the directory listing.
- (b) Write a command using sed for the following : 5
- (any five)
- (i) Substitute 'endif' with 'fi' on line 10 of file X<sub>1</sub>.
  - (ii) Display two lines starting from 7th line of file X<sub>1</sub>.

- (iii) Display all line before string Unix from file X<sub>1</sub>.
  - (iv) Display all blank lines between line 20 and 30 of file X<sub>1</sub>.
  - (v) Display lines beginning either with alphabet or digit from file X<sub>1</sub>.
  - (vi) Display the lines that do not contain "Unix".
- (c) Write note on pattern matching feature of awk utility 4 giving example.
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