



**KA-3762**

**Third Year B. C. A. (Sem. V) Examination**  
**September / October – 2012**  
**Paper - 502 : Unix & Shell Programming**

Time : 3 Hours]

[Total Marks : 70

**Instructions :**

(1)

नीचे दशांशिक निशानीवाणी विगतो उत्तरवही पर अवश्य द्वापवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<b>T. Y. B. C. A. (SEM. 5)</b>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<b>PAPER-502 : UNIX &amp; SHELL PROGRAMMING</b>	<input type="text"/>
Subject Code No. : <input type="text" value="3"/> <input type="text" value="7"/> <input type="text" value="6"/> <input type="text" value="2"/>	Student's Signature
Section No. (1, 2,...) : <input type="text" value="NIL"/>	

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

- 1 Answer in short : (any seven) 14
- (i) What command is-a do ?
  - (ii) What do you mean by zombie state of a process ?
  - (iii) Which file attribute (permission) changes when you copy a file from other user account ?
  - (iv) State why the -r option of rm is dangerous.
  - (v) What does/etc/passwd contains ?
  - (vi) Which command of vi editor is used to display line number before each line ?
  - (vii) How can you make out whether two files are copies or links ?
  - (viii) Explain here document.
- 2 Answer the following : (any two) 14
- (i) List the characteristics of unix file system.
  - (ii) Explain features of Shell
  - (iii) Explain functions of Kernel.
- 3 (a) Explain types of files in UNIX. 6
- (b) Write a shell script which displays list of all Files 5  
in the current directory to which you have read write and execute permissions.

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[Contd...

- (b) Write a script that removes only empty files from current directory. 5
- (c) Explain tr command.
- 4 (a) Explain commands for changing file permissions and ownership. 5
- OR**
- (a) Explain conditional parameter substitution giving example. 5
- (b) Write commands for following : (any five) 5
- (i) Count number of characters in first five lines of file x1.
  - (ii) To replace the word Computer with Computing of file x1.
  - (iii) Display lines whose last word is UNIX of file x1.
  - (iv) Display lines starting from 10<sup>th</sup> line to the end of file x1.
  - (v) To delete all special characters from the file x1.
  - (vi) To display lines beginning with alphabets of a file x1.
- (c) Explain any two commands from following : 4
- (i) kill
  - (ii) more
  - (iii) touch.
- 5 (a) Perform following commands : (any four) 4
- (i) To remove a file name as X1 ? (X1 followed by ? character)
  - (ii) To run script X1 in background so that its execution continue even user logout from the system.
  - (iii) To display last line of a file X1.
  - (iv) To deny execute permission to a group of a file X1.
  - (v) To create link between file X1 and X1.link.
- (b) Answer the following : (any two) 6
- (i) Explain significance of system variable used with awk utility.
  - (ii) Explain concept of array in awk utility.
  - (iii) Write an awk script to display file contents in reverse. (i.e. last line should be displayed first,..... first line should be displayed last.)
- (c) Define Process. Which command is useful to know the status of process ? Explain it giving example. What are the three phases in creation of a process ? 4