

Code No: X0526

**R07****SET - 1**

**II B. Tech I Semester, Supplementary Examinations, Nov – 2012**  
**UNIX AND SHELL PROGRAMMING**

(Com. to CSE, IT)

Time: 3 hours

Max. Marks: 80

Answer any **FIVE** Questions

All Questions carry **Equal** Marks

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1. a) Explain the following commands with their syntax and examples.  
i) man ii) echo iii) passwd iv) date  
b) How many options are there in “ls” command .Explain? (8M+8M)
2. Describe the file handling and process utilities in detail. (16M)
3. a) Explain in detail about Redirection.  
b) Explain about Command-Line Editing and Command Substitution. (8M+8M)
4. a) Define grep. Briefly explain the differences between fgrep, egrep with examples.  
b) List the differences between grep and sed. (8M+8M)
5. a) What are the different types of operators used in awk shell script? Explain.  
b) Mention different types of loop statements in awk shell script. (8M+8M)
6. a) Explain the environmental variables in korn shell.  
b) Explain how arguments are validated in korn shell. (8M+8M)
7. a) Write a short note on start-up and shutdown scripts.  
b) Write a C shell script to generated Fibonacci series. (8M+8M)
8. Explain the following system calls with an example.  
a) File handling system calls  
b) Dictory handled system calls. (8M+8M)

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1. a) Explain the following commands with suitable examples.  
mkdir, rmdir, lp, who, uname, rm, printf.  
b) Explain about the features of UNIX. (8M+8M)
2. a) Explain about the UNIX file system.  
b) Explain in detail about backup utilities. (8M+8M)
3. a) Write a program to display the number of lines, words and characters in a file.  
b) What are the system variables in UNIX? Explain? (8M+8M)
4. a) Explain the following commands  
i) Delete patterns space commands. ii) Change commands. iii) Append commands.  
b) List all regular expressions of sed. (8M+8M)
5. a) Write a short note on string functions and mathematical functions in awk.  
b) Write an awk program to illustrate the concept of associate arrays. (8M+8M)
6. a) Explain the special parameters and variable in korn shell.  
b) Explain command execution and command history. (8M+8M)
7. a) What is the exit status of a command? Explain with example.  
b) Describe about “eval” command with an example. (8M+8M)
8. Explain briefly about the following system calls:  
a) create( )      b) lseek( )      c) link( )      d) stat( )      (16M)

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1. a) Explain the structure of a UNIX command with an example.  
b) Explain about tar and gzip? (8M+8M)
2. Explain the following commands with their syntax and examples.  
i) Finger ii) telnet iii) sort iv) egrep vi) tee (16M)
3. a) Write a shell script to find out whether a given number is prime number or not.  
b) Explain the command that eliminates duplicate entries in a file along with options. (8M+8M)
4. Explain in detail about grep operation and draw the flow chart with an example. (16M)
5. a) Explain about awk command and its options.  
b) List various applications of awk, grep and sed. (8M+8M)
6. a) Explain in detail Argument validation in Korn Shell.  
b) Explain the output statement in korn shell. (8M+8M)
7. a) Write a c shell program to merge two files  
b) Explain different special parameters that are available in C-shell. (8M+8M)
8. Briefly explain about the following system calls:  
open, read, lseek, syslink, stat, lstat, chmod, chown. (8M+8M)

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**R07****SET - 4**

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1. Explain the following commands with their syntax and examples.  
i) PATH ii) echo iii) pwd iv) stty v) cat vi) more vii) wc viii) cp (16M)
2. a) Explain about the UNIX file system.  
b) Describe briefly about Text processing utilities and disk utilities. (8M+8M)
3. a) Define filter? How they are used in UNIX program? Explain any 3 filter commands.  
b) Write a shell program to arrange three numbers in ascending order. (8M+8M)
4. a) Explain the differences between various grep commands.  
b) Differentiate between sed and grep. (8M+8M)
5. a) Write a program to check whether a given number is a Armstrong number or not.  
b) Explain in detail about any four string functions in awk (8M+8M)
6. a) Explain briefly about environment variables in Korn shell.  
b) Write a Korn shell script to find the factorial of a number. (8M+8M)
7. a) Explain piping in C shell with example.  
b) Write a C shell program to copy the content of one file to another. (8M+8M)
8. Define system call. Explain in detail about the working and syntax of file structure related system calls. (16M)