

Code No: X0526

**R07**

**SET - 1**

**II B. Tech I Semester Supplementary Examinations May – 2013**

**UNIX AND SHELL PROGRAMMING**

(Com. to CSE, IT)

Time: 3 hours

Max. Marks: 80

Answer any **FIVE** Questions  
All Questions carry **Equal** Marks

1. a) Write the syntax and explain the following commands  
passwd, stty, mkdir, cp and tar  
b) What are features of Unix? Explain script, od, gzip and uname commands. (8M+8M)
2. a) Explain about the vi editor.  
b) Explain about text processing utilities and backup utilities.  
c) Describe find, finger, and telnet commands. (5M+5M+6M)
3. a) Discuss about aliases, variables and predefined variables in detail.  
b) Explain files with duplicate lines in detail with examples. (8M+8M)
4. Explain the following:  
a) Searching for content in grep  
b) Commands of sed (8M+8M)
5. a) Describe scripts and operations of awk.  
b) Explain about using system commands in awk  
c) Discuss about applications of awk. (6M+6M+4M)
6. a) How startup scripts are used in Korn shell? Explain.  
b) Describe argument validation in Korn shell programming.  
c) Explain about expressions in Korn shell programming. (5M+5M+6M)
7. Explain the following with respect to C shell:  
a) Startup and shutdown scripts  
b) Expressions  
c) Repetition  
d) Command history (4M+4M+4M+4M)
8. Explain the following commands:  
a) read and write  
b) closedir and rmdir  
c) symlink and unlink  
d) stat and lstat (4M+4M+4M+4M)

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**SET - 2**

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Max. Marks: 80

Answer any **FIVE** Questions  
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1. a) Draw the architecture of UNIX. Explain the syntax of ls, mv, lp, and tar commands.  
b) What is operating system? Explain uname, pwd, more, cat and echo commands. (8M+8M)
2. a) What are file handling utilities? Explain.  
b) Explain security by file permissions.  
c) Describe tee, diff, cpio, and nl commands. (4M+6M+6M)
3. a) Explain about command substitution, command execution and command-line editing in shells.  
b) Describe concatenating files and display of beginning and end of files. (8M+8M)
4. Explain the following:  
a) grep family  
b) Addresses of sed (8M+8M)
5. a) Explain the execution of awk.  
b) Briefly describe strings functions of awk.  
c) Describe actions in awk. (5M+5M+6M)
6. a) Briefly describe variables, output and input of Korn shell.  
b) What are basic script concepts of Korn shell programming? Explain decisions in detail. (8M+8M)
7. Explain the following with respect to C shell:  
a) Two special files  
b) On-off variables  
c) Argument validation  
d) Expressions (4M+4M+4M+4M)
8. Explain in detail about directory API in file management. (16M)

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**R07****SET - 3****II B. Tech I Semester Supplementary Examinations May – 2013****UNIX AND SHELL PROGRAMMING**

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Time: 3 hours

Max. Marks: 80

Answer any **FIVE** Questions  
All Questions carry **Equal** Marks

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1. a) Give brief introduction on Unix. Explain PATH, wc, mkdir, and printf commands.  
b) Explain the following commands: man, stty, cp, cat and gzip. (8M+8M)
2. a) Discuss about disk utilities.  
b) Describe arf, find, arp, and w commands.  
c) Explain the following commands: uniq, join, sort, tr, and pg. (5M+5M+6M)
3. a) Explain about standard streams, redirection and tee command in detail.  
b) Describe count characters, words or lines using filters. (8M+8M)
4. Explain the following:  
a) Operation of grep  
b) Scripts of sed (8M+8M)
5. a) Explain associative arrays of awk.  
b) Describe mathematical functions of awk.  
c) Discuss in detail about awk and grep. (5M+5M+6M)
6. a) Describe eval command in detail.  
b) Explain command history of Korn shell.  
c) Discuss about changing positional parameters in Korn shell programming. (5M+5M+6M)
7. Explain the following with respect to C shell:  
a) Features  
b) Exit status of a command  
c) Debugging scripts  
d) Special parameters and variables (4M+4M+4M+4M)
8. Explain the following:  
a) lseek and lstat  
b) chmod and chown  
c) closedr and creat  
d) umask and opendir (4M+4M+4M+4M)

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**SET - 4**

**II B. Tech I Semester Supplementary Examinations May – 2013**

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Time: 3 hours

Max. Marks: 80

Answer any **FIVE** Questions  
All Questions carry **Equal** Marks

1. a) What is operating system? Explain script, date, cd, rmdir, and wc commands.  
b) Explain the following commands: echo, uname, mkdir, cat, and tar. (8M+8M)
2. a) Discuss in detail about networking commands.  
b) Describe sort, tee, nl, comm and cpio commands. (8M+8M)
3. a) Describe filters and pipes.  
b) Explain translating characters using filters. (5M+5M+6M)
4. a) Explain the commands of grep family with examples?  
b) Explain about SED command? Give two examples? (8M+8M)
5. a) Discuss in detail about sed and awk  
b) Explain user-defined functions in awk.  
c) Describe execution, scripts and patterns of awk. (5M+5M+6M)
6. a) What are Korn shell features? Explain two special files.  
b) Explain command execution process in Korn shell.  
c) Give script examples in Korn shell programming. (5M+5M+6M)
7. Explain the following with respect to C shell:  
a) Making selections  
b) eval command  
c) input and output  
d) Changing positional parameters (4M+4M+4M+4M)
8. Explain in detail about system calls for file management. (16M)