

Code No: **R42029****R10****Set No. 1****IV B.Tech II Semester Supplementary Examinations, April - 2018****UNIX AND SHELL PROGRAMMING****(Electrical and Electronics Engineering)****Time: 3 hours****Max. Marks: 75****Answer any FIVE Questions****All Questions carry equal marks**

- 1 a) What is UNIX? What are the various versions of UNIX? Explain the prominent features of UNIX. [7]
b) Explain the following UNIX commands [8]
(i) printf (ii) who (iii) mkdir (iv) wc
- 2 a) What are the three levels of security in UNIX? Explain each in detail. [6]
b) Explain the following UNIX commands (i) mount (ii) finger (iii) sort. [9]
- 3 a) What is a Shell? Explain the two different duties of a Shell. How can you create a sub shell? How can you move to the parent shell after creating a sub shell? [7]
b) What are the three UNIX commands used to compare the contents of files? Explain each command in detail and also compare them. [8]
- 4 a) What is a 'grep' command? Illustrate the working of 'grep' command with a suitable example. [7]
b) Define the 'sed' utility? Give the format of the 'sed' and Explain the operation of the 'sed' utility with suitable diagrams. [8]
- 5 a) Explain in brief various categories of awk patterns. [8]
b) Explain the format for user defined functions in awk script. Write a function to find the smallest of 10 integers. [7]
- 6 a) Explain the following statements in Korn shell [8]
(i) continue (ii) while (iii) if-else (iv) case-esac
b) What are positional parameters? How to validate input parameters? Explain with an example. [7]
- 7 a) What is an On-Off variable in C Shell? List some of these variables and their use. [7]
b) What would be printed from the following C Shell script segment? Explain why? [7]
For each i (1 2 3 4 5 6 7 8 9 10)
@i *=2
@i +=1
if (\$i >10) then
echo \$i
endif
end [8]
- 8 a) Differentiate between a system call, a library function and a Unix command. [6]
b) Explain the following file handling system calls in UNIX [9]
(i) create (ii) open (iii) read (iv) write