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<b>P.E.S. College of Engineering, Mandya - 571 401</b> (An Autonomous Institution affiliated to VTU, Belgaum)   First Semester, Master of Computer Applications (MCA)   Make-up Examination; Feb - 2017   Introduction to UNIX   Time: 3 hrs Max. Marks: 100										
	ote: Answer FIVE full questions, selecting ONE full question from each unit.									
	UNIT - I									
1 a.	With a neat diagram, explain the architecture of UNIX.									
b.	Explain the following commands with example :									
	i) bc ii) cp									
	iii) lock iv) who.									
2 a.	Write the commands which perform the following functions in UNIX and explain them with									
	at least one option :									
	i) To count the number of lines, words and characters present in a file									
	ii) To delete files									
	iii) To record the session.									
b.	Explain the features of UNIX operating system.									
c.	Explain the use of file command. UNIT - II									
3 a.	Explain the following command with example :									
5 u.	i) umask ii) chown iii) chgrp iv) find.									
b.	Explain the difference between hard links and symbolic links.									
4 a.	Explain the command used to change the file permissions and also explain the ways of									
	changing file permissions.									
b.	List the administrator privileges.									
c.	Explain the following commands with example :									
	i) cpio ii) tar iii) du iv) ls									
	UNIT - III									
5 a.	Write a shell script that accept a list of file names as its argument, count and report									
	occurrence of each word that is present in the first argument file on other argument files.									
b.	Explain the following commands with example :									
	i) shift ii) expr iii) trap.									
c.	Explain the differences between while and until loop with example.									

c. Explain the differences between while and until loop with example.

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6 a.	Explain the following special variables with example :										
	i) \$0	ii) \$*	iii) \$#	iv) \$?				8			
b.	Explain any four environment variables used in UNIX.										
c.	Write a shell script which accept a file name as its argument and display the word which is										
	having maximum number of characters.										
UNIT - IV											
7 a.	Explain the following commands with example :							12			
	i) head	ii) tail	iii) cu	t iv	) tr			12			
b.	Explain the sort command with any four options.										
8 a.	a. What is regular expression? Explain the meaning of following meta characters with exam										
	i)∧ i	i) *	iii) \$					6			
b.	Explain grep command and its options with example.										
c.	Explain egrep and fgrep.										
UNIT - V											
9 a.	Explain the following commands with example :							10			
	i) nice	ii) at	iii) bat	ch	iv) kill			10			
b.	What is process? Explain the mechanism of process creation.										
c.	Explain the use of cron command with example.										
10a.	Explain the Built-in functions and variables of awk.										
b.	Explain the different sections of awk script.										
c.	c. Consider a file <i>f1.txt</i> contains the following data about employees										
				<u>Name</u>	<u>Salary</u>	Age	2				
				Raju	50000	35					
	Ramu 10000 45							4			
				Mahesh	30000	50		4			
				Guru	35000	52					

Write an awk command to list the employees from fl.txt who are taking the salary of more than 20000.

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