

Reg.No. _____

**Karunya UNIVERSITY**(Karunya Institute of Technology & Sciences)
(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)**End Semester Examination – Nov/Dec – 2016**
Code : 14CS3046
Sub. Name : System Administration
Semester : 2016-17 ODD
Duration : 3hrs
Max. marks : 100
ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)

Q. No.	Sub Div.	Questions	Course Outcome	Marks
1.	a.	Explain the need and contents of the following directories in detail: /bin, /dev, /home, /usr, /data, /etc, /lib, /media, /opt and /sbin. What will happen if the following directories are not available?	CO1	20
(OR)				
2.	a.	Write the commands to perform the following task: a. Find the current working directory b. List the files in a directory c. change the directory to the parent directory. d. change the password of user 'bingo' e. create a new user tux. f. create a new group sports. g. create files t1, t2 t10 using the touch commands. h. view the file trumpet using the cat file. I. create a new directory university j. copy all files from test directory to university directory	CO1	10
	b.	What is the use of find command? Write the syntax with options showing how it can be used?	CO1	5
	c.	Write the commands and differentiate 'whereis' and 'which' commands.	CO1	5
3.	a.	Write about the types of shell.	CO1	10
	b.	Write the commands to perform the following task: a. list the history b. execute the command at line 55 c. switch to root user d. create alias e. list all the hidden files	CO1	5
	c.	What is the benefit of YaST ? How it benefits the user?	CO2	5
(OR)				
4.	a.	Define ip address. How ip address is assigned if Dynamic address option is selected? What is the role of Hostname?	CO3	5
	b.	How users are created? What is the role of user? How access rights are given to a user?	CO1	
	c.	What content is stored in /etc/passwd file as well as in /etc/shadow file? Explain each parameters.	CO1	10
5.	a.	Write the commands to perform the following tasks in vi editor: a. open a new file Happy b. insert the line "I am happy today" e. copy and paste that line five times f. save the file as Happy-holiday g. delete 3 lines in the new file	CO2	5

	b.	Describe the linux load procedure with necessary diagrams.	CO1	15
(OR)				
6.	a.	Write in detail about the init process. How init determines which services to start and stop?	CO1	20
7.	a.	What is the use of ps, pstree, nice and top command, explain with options.	CO2	10
	b.	How can process be terminated in different ways?	CO1	5
	c.	Define daemon. How are they managed?	CO1	5
(OR)				
8.	a.	Write the steps to configure LVM and software RAID. Explain the various RAID levels.	CO1	20
<u>Compulsory:</u>				
9.	a.	What are the ways through which task can be automated. Write the necessary commands and explain in detail using them.	CO1	20

ALL THE BEST