For US (E)

Paper / Subject Code: 77303 / Linux.

13

(Time 21/2 I	Hours)
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[Total Marks: 75]

N.B.	1) All questions are compulsory.				
	2) Figures to the right indicate marks.				
	3) Illustrations, in-depth answers and diagrams will be appreciated.				
		4) Mixing of sub-questions is not allowed.			
	5) Assume suitable data if required or				
Q. i	Attempt All(Each of 5Marks)			(15	
(a)	Multiple Choice Questions			130	
1)	represents user's home	directory.			
	(a) /	(b) \			
	(c) ~	(d)			
2)	is not Linux distribution				
	(a) Centos	(b) Fedora			
	(c) Ubuntu	(d) MS Win	dows		
3)	How do you rename file "new" to file	e "old"?			
	a) mv new old b) move new old	c) cp new old	d) rn new old		
4)	Full form of SSH is				
	(a) Secure Shell	(b) System S	Shell		
	(c) Source Shell	(d) Superuse	er Shell		
5)	Consider a command "echo "My nai	me is khan" gaw	k '{\$4="university"	':	
	print \$4}" will print			8	
	(a) My name is khan	(b) Khan			
	(c) university	(d) My name	e is univesity		
(b)	Fill in the blanks (copy, cp, \dev ,\bin	, head , who, chm	od)	(5)	
1)	command is used to copy	files and directorie	es?	(0)	
2)	directory contain device spe	ecial files			
3)	To display information of users co	ommand is used.			
4)	command is used to print first fe	w lines of a file,			
5)	is used to change file permiss	sions.	8		
(c)	Short Answers			(5)	
1)	State the rules for writing file name in I	inux.		(3)	
2)	What is the need of cat command in Linux?				
3)	Define the term full duplex with respect	to communication	1,		
4)	What do you mean by shell?				
5)	Give the name (path) of file containing	user's password re	lated information.		

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Q		/ 4 A
(a)	Explain the relationship between kernel and shell with a neat diagram	(15)
(b)	What are the different points which make GUI more user friendly compare to	
	command line interface?	
(c)	Justify the importance of Linux as OS on web services and mobiles.	
(d)	Discuss 'init' process along with its run levels.	
(e)	Explain the following options for shutdown process.	
	• -a	
	• -h	
	• Time	
	Message	
(f)	Write use of following directories in Linux:	
	i) /etc	
	ii) /root	
	iii) /bin	
	iv) /sbin	
	v) /lib	
Q. 3	Attempt the following (Any THREE) (Each of 5Marks)	
(a)	Write a note on following:	(15)
	• Launcher	
	• Dash	
	• Workspaces	
(b)	State the purpose of following commands:	
30.	• nslookup	
	• dig	
	• arp	
	• factor	
	• info	
(c)	What do you mean by onvisor-serve the server	
	What do you mean by environmental variable? Explain following environmental variables in one line.	
	• PATH	
	• SHELL	
	• HOME	
	• PS2	
d)	Explain the use of following commands:	
	• cal	
	• date	
	• wc	
	• echo	
	• whoami	

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(e)	Explain in brief hard link and soft link with suitable example.
	Discuss following Linux Documentation commands: -

- i) man
- ii) info

Q. 4 Attempt the following (Any THREE) (Each of 5Marks)

(15)

- (a) Write a short note on FTP.
- (b) Discuss test command for file comparison.
- (c) State the purpose of following Regular Expressions: ^, \$, *,(),?
- (d) Write a shell script to accept 2 numbers from user and one operator. Based on the operator entered perform addition, subtraction, multiplication and division.
- (e) Write any five privileges of administrator.
- (f) Assume that there is a file called "number" with following data

1	2
4	5
6	6
8	9

Write the purpose of awk command and command perform following:

- 1) Add two columns.
- 2) Find the average.
- 3) Multiply two columns.

Q. 5 Attempt the following (Any THREE) (Each of 5Marks)

(15)

- (a) State the use of ps command with any 4 options.
- (b) Explain following file compression utilities:
 - i) bzip2
 - ii) gzip
- (c) Describe following terms
 - HTTP
 - TCP/IP
- (d) List option of Is- I command and describe each column in short.
- (e) Discuss IP address.
