	(Time 2½ Hours	s) [Total Marks	: 75]	
	1) All questions are compulsory.		222	
	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 n	ot given.	20 2 2 C	
1	Attempt All(Each of 5Marks)		(15)	
	Multiple Choice Questions		13 3 5 E	
	1)represents user's home of	directory.		
	(a) /			
	(c) ~		2000	
	is not Linux distribution			
	(a) Centos	(b) Fedora	175	
	(c) Ubuntu	(d) MS Windows	977	
	How do you rename file "new" to file	"old"?	5	
	a) mv new old b) move new old	c) cp new old d) rn new old		
	Full form of SSH is			
	(a) Secure Shell	(b) System Shell		
	(c) Source Shell	(d) Superuser Shell		
	Consider a command "echo "My name is khan" gawk '{\$4="university";			
	print \$4}" will print			
	(a) My name is khan	(b) Khan		
	(c) university	(d) My name is univesity		
	Fill in the blanks (copy, cp, \dev ,\bin,		(5)	
	command is used to copy f			
	directory contain device spe	cial files		
02/	To display information of usersco			
\$	command is used to print first few	-Y -/- / /		
5	is used to change file permiss	ions.		
5	Short Answers		(5)	
35,	State the rules for writing file name in Linux.			
20	What is the need of cat command in Lin	ux?		
	Define the term full duplex with respect	to communication.		
3	What do you mean by shell?			
3	Give the name (nath) of file containing i	user"s password related information		

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

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(e) Explain in brief hard link and soft link with suitable example.
 (f) 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 ls-1 command and describe each column in short.
- (e) Discuss IP address.

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