(Time 2½ Hours	s) [Total Mark	[Total Marks: 75]	
1) All questions are compulsory.	\$\\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\		
2) Figures to the right indicate marks.	12 4 4 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	300	
3) Illustrations, in-depth answers and di	agrams will be appreciated.	970	
4) Mixing of sub-questions is not allowed		A 02.25	
5) Assume suitable data if required or n	ot given.	000000	
Attempt All(Each of 5Marks)		(15	
Multiple Choice Questions			
represents user's home of			
(a) /	(b) \	8	
(c) ~			
is not Linux distribution			
(a) Centos	(b) Fedora		
(c) Ubuntu	(d) MS Windows	7 (E)	
How do you rename file "new" to file		30,	
	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 nam	ie is khan" gawk '{\$4="university	y '' ;	
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 fi	CYAY		
directory contain device spec	, v = 1		
To display information of users co			
command is used to print first few			
is used to change file permiss	ions.		
Short Answers	E. S.	(5)	
State the rules for writing file name in L	inux.	. ,	
What is the need of cat command in Lin			
Define the term full duplex with respect			
What do you mean by shell?			
Give the name (path) of file containing t	user's password related information.		

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O. 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 (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.
 (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	9.75

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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