	(2 ½	2 Hours)	[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.		
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Q. 1	Attempt All (Each of 5Marks)		(15M
(a)	Multiple Choice Questions		
	1. Original creator of Linux is		
	a. Richard Stallman	b. Dennis Ritchie	
	c. Ken Thompson	d. Linus Torvald	
	2. Linux is a		
	a. open source system	b. open source software	
	c. open server system	d. open server software	7. 4. 6. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.
	3is not one of the Linux Distribution.		10. 2 - 4
	a. Ubuntu	b. Fedora	3
	c. Microsoft Windows	d. Kali	
	4. SSH stands for		, P
	a. Secure Shell	b. Source Shell	
	c. System Shell	d. Server Shell	
	5. GNOME desktop stands for		
	a. GNU Network Object Model Environment		
	b. GCC Network Object Model Environment		
	c. GNU New Object Environment		
	d. GCC New Object Environment		
(b)	Fill in the blanks		
	1puts the operating system in memory.		
	2command is used to display information about		
	command in Linux system.		
	command immediately shutdown and reboot the machine.		the machine.
	4. if config means		
	5 command is used to reverse characters in every line of a file.		
(c)	Short Answers		
	1. Role of Linux Kernel		
	2. Use of RPM		
	3. gedit		
	4. Bourne Shell		
Z- O	5. sudo command		

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Q. 2 Attempt the following (Any THREE) (Each of 5Marks) (15M)

- (a) List Linux Distributions. Discuss any four of them.
- (b) Write any five features of Linux operating system.
- (c) Diagrammatically explain Linux architecture.
- (d) Explain the activities carried by shutdown process in Linux.
- (e) Write a note on Linux Community.
- (f) Define process. Explain ps command with its options and usage.

Q. 3 Attempt the following (Any THREE) (Each of 5Marks)

(15M)

- (a) What is gedit and its features? Explain.
- (b) Explain any five general purpose utility commands with example.
- (c) Define command alias. How to create it? Give suitable examples.
- (d) Discuss File attributes in Linux.
- (e) How to modify permissions of files in Linux using chmod command? Explain.
- (f) List compression utility commands. Explain any two with examples.

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

(15M)

- (a) What are the uses of root user in Linux system?
- (b) Write a note on FTP.
- (c) What is the purpose of commands:- ssh, ping, hostname, telnet, route. Give suitable example.
- (d) Explain Boolean operators -a, -o and! used in shell scripting with an example.
- (e) Define regular expression. What is the purpose of the following regular expression characters: ^ ,\$,* ,?
- (f) Write a shell script to read a month number from the user and display corresponding month name.

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

(15M)

- (a) Give the importance of Linux in software ecosystem as Web Servers and Mobiles.
- (b) What is the purpose of following environment variables? HOME, PS1, SHELL, PATH, PS2
- (c) What are the rules for having passwords in Linux security?
- (d) Give the purpose of the following directories:-/bin, /etc, /home, /sbin, /var
- (e) List any three features of awk. Give its general syntax. Explain it with two different examples.
