

ΠΑΠΙΒΙΑ UΠΙVERSITY OF SCIEΠCE AND TECHNOLOGY FACULTY OF COMPUTING AND INFORMATICS

DEPARTMENT OF COMPUTER SCIENCES

QUALIFICATION: BACHELOR OF COMP	UTER SCIENCE
QUALIFICATION CODE: 07BCMS	LEVEL: 7
COURSE CODE: LSA721S	COURSE NAME: Linux Systems Administration
SESSION: JANUARY 2024	PAPER: (PAPER 2)
DURATION: 3 HOURS	MARKS: 83

SECOND OPPORTUNITY/SUPPLEMENTARY EXAMINATION QUESTION PAPER			
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	INSTRUCTIONS
1.	Answer ALL the questions.
2.	Read all the questions carefully before answering.
3.	Number the answers clearly

THIS QUESTION PAPER CONSISTS OF 5 PAGES (Including this front page)

- b) No Parity
- c) All parity in a single disk
- 11. d) Double Parity The first line in any shell script begins with a _____?
 - a) &

b) !

c) \$

d)#

- 12. Which one of the following statements is true about variables in shell?
 - a) variables do not require declaration before assigning value to them
 - b) variables are case sensitive
 - c) to extract the contents of a variable, we have to provide the variable a preceding \$
 - d) all of the mentioned

		om the terminal and assign this value	to a
variable name?			
a) read		b) get	
c) declar		d) set	
14. What is the con	nmand used to determin	e the path of an executable?	
a) which		b) where	
c) wexec		d) what	
15. The command	used to count the number	er of characters in a file is?	
a) grep		b) wc	
c) count		d) cut	
16. Which of these	commands could you us	e to show one page of output at a tim	ne?
a) less		b) sed	
c) pause		d) grep	
17. The pwd comm	nand displays?		
a) user passwo	rd	b) password file content	
c) present work		d) none of the mentioned	
18. Which of the fo	ollowing commands can b	pe used to change default permissions	s for files
and directories	at the time of creation?	ū.	
a) Chmod		b) Chown	
c) Umask		d) Chgrp	
19. Physical Volum	ies are		
a) The space or	n a physical storage that i	represent a logical volume	
b) Disk or disk j	partitions used to constru	uct logical volumes	
c) A bunch of d	lisks put together that ca	n be made into a logical volume	
d) None of the			
		nly criterion, which would you choose	7
a) RAID 0	ite periormance is the or	ny chienon, which would you choose	
e man e e e e e			
b) RAID 1			
c) RAID 5			
d) RAID 50			

Read each statement below carefully and state whether it is false or true.

- 1. Only one unprivileged user may be logged into a Linux system at any given time.
- 2. Shell is the software that provides an interface for the user of an operating system which needs services of a kernel.
- 3. HCL stands for High Computing Load.
- 4. Linux distributions can be broadly categorized into three groups.
- 5. GNU is established in 1984 by Linus Torvalds.
- One of the most significant design decisions you must make when managing a server may not even be administrative, but technical.
- 7. The wc command is used to find out the number of users logged on.
- 8. We can use the > symbol along with pipe in a command
- 9. RED HAT is one of the original Linux distributions.
- 10. There are three types of variables in Linux.

Se	ction	1C	[53 marks]
An	swei	r all the questions in this section	
1.	Wri	ite down the commands to perform the following:	
i ii iv	'. '.	List all processes running. Check the FQDN of the machine. To display the contents of the crontab file of the currently logged in user. Give a command used to display all system variables. Counting number of lines of the abc.txt file. Remove Dir2 directory and its subdirectories.	[1] [1] [1] [1] [1]
2.		plain what the following commands are doing:	[-1
	(i) (ii) (iii) (iv) (v) (vi)	sort –r fruits.txt student=john	[2] [2] [2] [2] [2]
3.	Nai	me two steps that can be taken to improve the performance of your serve	er. [4]

4.	. Study the script below and explain it's purpose.		[4]	
	for i in FLP Java Python Perl			
	do	90		
	mkdir \$file			
	done			
5.	Write a shell script that w	rill ask a user to enter a number and then print a multiplica	ition	
	table of that number from	n 1 to 5.	[8]	
	Sample output	7 x 1 = 7		

		7 x 5 =35		
6.	Name three reasons why	to use RAID.	[3]	
7.	What is the difference be	tween RAID0 and RAID1	[2]	
8.	. Write a cronjob that will run a script Runscript8472 every month on the first of every		ry	
0	month at 25 past midnig	ht.	[4]	
9.	What is LVM?		[2]	
10	. What is the uid and gid o	f the root user on Linux server?	[2]	
11	11. With the default umask of 0124, what would be the default permissions for newly created			
	files and directories?		[6]	

