



ICT2631

October/November 2017

OPERATING SYSTEMS PRACTICE

Duration

2 Hours

100 Marks

EXAMINERS

FIRST EXTERNAL MR DJ BISSCHOFF PROF HS VENTER

Use of a non-programmable pocket calculator is permissible

Closed book examination

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This paper consists of 4 pages including this one

Instructions

Please answers all questions and in sequence

Please write legibly

Ques	stion 1	[27]			
11	What are the basic features of the GNU public license?				
12	What is the term used for grouping many computers together so that they appear as one system to the outside world? (1)				
13	Name one (1) of the popular Open Source Initiative open-source licenses (1				
1 4	What is Nautilus used for in Linux? (1				
1 5	Give two (2) reasons why you would use RAID partitions in a Linux installation (2)				
16	How do RPM and YUM differ as relates to managing dependencies when installing packages? (3)				
1 7	Which user/s may set an access control list (ACL) on a specific file?				
1 8	What is swap space?				
1 9	Describe how LVM links physical and logical space				
1 10	Which are the two (2) main packaging formats used to distribute additional Linux software? (2)				
1 11	What criteria would you apply when assigning a password to a user?	(6)			
	tion 2	[36]			
2 1	Redraw the table below, listing some <i>vi</i> -commands, in your examination script and complete the second column (2 marks per entry)				
ſ	Command used in vi What the command does				
	ZZ				
Ì	w				
	wq				
	q				
ł	q'				

TURN OVER

(2)

What is the range of nice values that may be assigned to a process?

Answer the following questions regarding nice values

22

only

	b) c) d)	If you are a regular user A process (a) with a nice	e values that may be assigned by a regular user?, can you assign more CPU time to a process? e value = 3 as well as a process (b) with a nice of these two processes would get the most CPU	(2)(1)(1)			
23		e following table to your e ript test expressions	xamınatıon script and complete the table regardıng	9 (6)			
	Operato	r What is be	ing tested				
	-p file						
	-w file						
	-h file						
	-k file						
	-b file						
24	•	iscuss what an RPM pack ation files, metadata and o	kage is by referring to features, commands, documentation	(6)			
25		What is specified by each of the following options that may be used with the useradd-command? (8)					
	a) -m b) -D c) -G d) -n						
Ques 3 1		-] mount a disk designated <i>sdb2</i> using an <i>ext3</i> file ddisk already exists and it must be mounted as re	37] ad			

(8)

32		alled data txt has all permissions open (rwxrwxrwx). Write down to etters and dashes(-), that will apply after the commands (a,b and chmod a-w data txt chmod o-x data txt chmod go-rwx data txt.				
33	What information will appear in your prompt if you use the lu and lt special characters?					
3 4	Briefly d	lescribe what the <i>kafs</i> filesystem is	(4)			
35	Briefly e.a) b) c) d)	explain the purpose of the following Linux commands Is grep touch passwd nice	(5X2=10)			
36	Write the command that will display the contents of the <i>myText</i> file, followed by a listing of all files (including hidden ones) in the current directory (5)					
			TOTAL [100]			

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