



ICT2631

October/November 2016

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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Please answer all questions in sequence Please write legibly This paper consists of 3 pages including this one

Questi	on 1			
11	Explain the implications of a proprietary Operating System	(4)		
12	Options for commands may be specified using "-" or "" Explain when the "-" and "" is use and give examples to illustrate the difference	d (4)		
13	Give the two general forms that may be used to expand an arithmetic expression and pass it to shell	the (4)		
14	The Bash shell uses, among others, a /etc/bashrc configuration file When is this file executed a what is set during the execution?	and (4)		
15	Metacharacters may be used to re-direct data to and from files List the metacharacters that may be used for this re-direction and briefly explain the purpose of each (2)	iy 10)		
16	What solution is available in Linux to prevent you from having to enter groups of commands ev time you need them? Explain the concept briefly	ery (3)		
17	Assume you had to advise someone how to choose a password What would you tell them?	(6)		
	į:	35]		
Question 2				
21		(3)		
22	Starting with permissions, write two different commands based on letters to assign the permissions $rw-rr-x$	gn (6)		
23	Explain what the following commands do when you are in "ex" mode in the vi editor a) g b) s	(4)		
24	Give the <i>find</i> command that will find any file named <i>statement</i> under the <i>/doc</i> directory and include the name in the output of an <i>echo</i> command that displays "File is in" followed by the page	th (6)		
25	Explain the purpose of the following positional shell variables a) \$@ b) \$# c) \$7 d) \$1	(4)		

26	What is the purpose of the pipe character () when used in a command?	(2)
27	Explain the difference between su and sudo	(4)
28	What information would you gather in preparation for configuring a Linux system for LDAP authentication?	(4)
		[33]
Quest		
31	What command would you use to achieve the following in terms of software management?	
	a) Download Firefox from the yum repository without installing it.	(2)
	b) Remove the package <i>emacs</i> using RPM	(2)
	c) Determine what dependencies <i>emacs</i> has using yum	(2)
32	Briefly state the purpose of the following useradd options	
	a) -c	(2)
	b) -d	(2)
	c) -D	(4)
	d) -m	(4)
	e) -M	(2)
	f) -s	(2)
33	What is an Access Control List (ACL)?	(2)
34	Give the command you would use to mount a disk sdb2 using an ext3 file system The	
	mount point mnt/olddisk already exists and it must be mounted as read only	(8)
		[32]
	TOTAL	[100]

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