

Question 1

- 1.1 What is *vsftpd*? Name two other server packages that may be used for the same purpose. (3)
- 1.2 Part of an administrator's duty is to monitor the system's activities using *sar*.
- a) Which activities will be monitored? (4)
 - b) When will data be gathered, assuming default settings are used? (1)
- 1.3 What are the 5 main parts that constitutes an entry in the messages log file? (5)
- 1.4 What option/s would you combine with the *df* command in order to:
- a) print only file systems of a particular type. (2)
 - b) exclude file systems of a particular type. (2)
 - c) include file systems with no space. (1)
 - d) list only available and used inodes. (1)
 - e) display disk space in a certain block size. (2)
- 1.5 Consider the excerpt from the output of a *route* command below: (ignore the metric, ref and use columns) (7)

Destination	Gateway	Genmask	Flags	Metric	Ref	Use	Iface
192.168.0.0	*	255.255.255.0	U	0	0	0	wlan0
default	192.168.0.1	0.0.0.0	UG	0	0	0	wlan0

List all the information you can determine from the output above?

1.6 An *ifcfg* network interface configuration file has the following entry in it:

DNS1=192.168.0.2

Explain the significance of the entry.

(3)

[31]

Question 2

2.1 To define a custom route, you create a configuration file in the *etc/sysconfig/network-scripts* file. Name and briefly describe three things you need to define in this file.

(6)

2.2 Where would you look for a service's scripts given the variety of daemons?

(6)

2.3 Name five *system* unit types.

(5)

2.4 How will you determine the cups service's status in *systemd init* using a single command?

(4)

2.5 Discuss the IPP model mentioning exchange of information and availability of printers.

(4)

2.6 You work on a system where a CUPS printer named *epsonps* is the default printer. There are other printers in the system called *canyonps* and *hpps*.

a) Give the command that will print *doc1.ps* on *canyonps* by overriding the default printer setting.

Do not change the default setting permanently.

(4)

b) Give a command that will print 15 copies of *doc1.ps* on the default printer (do not specify a printer name).

(3)

c) What command would you use determine the status of the printers?

(2)

[34]

Question 3

- 3.1 a) What is the purpose of the *DirectoryIndex* directive in Apache? (1)
- b) What is the purpose of the *Listen 80* directive? (1)
- c) What command would you use to test your Apache configuration after you made changes? (1)
- d) What happened if you get a *Script crashed* error in Apache? (1)
- 3.2 Discuss the following ciphers by referring to symmetry, block size and keys as it applies.
- a) Blowfish (3)
- b) IDEA (3)
- c) AES (3)
- d) RSA (3)
- 3.3 Name six ways that may be used to identify network packets in an iptables firewall. (6)
- 3.4 Name two reasons why you would clean out your yum cache. (2)
- 3.5 State why you think you may need to interrupt the boot process while troubleshooting Linux. (4)
- 3.6 What does salting a hash mean? (4)
- 3.7 The *iptables* utility is used to implement a firewall on Linux.
- a) What would happen if you have a rule *iptables -P INPUT DROP* in iptables? (1)
- b) What does *iptables -F* do? (2)
- [35]

TOTAL 100