POKHARA UNIVERSITY

Level: Bachelor Semester: Spring Year :2016

Programme: BCA Full Marks: 100

Course: Linux Pass Marks: 45

Time : 3hrs.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

1. a) What is Linux? Is it legal to edit Linux kernel? Is Linux operating system virus free? Explain.

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2.

b) What do you mean by Linux Shell? What is ksh? What are the basic differences between BASH and DOS?

a) What do you mean by LILO? What is GNU GRUB? What is Linux swap partition and what does it do?

b) What is SUDO? Describe the root account with the procedure to login as root user?

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3. a) For what purose we need following commands? Clarify.7

a. touch

b. df-h

c. lsmod

d. ifconfig

e. chmod

f. cat

b) Explain the procedure of adding, removing and modifying user 8accounts in Linux with necessary commands and examples.

4.

a) Write a shell script program to find factorial of a given number.

b) For what we need backing-up and restoring features in operating system? Explain backing-up strategies.

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5. a) What do you mean by web Server? What is the function of webalizer?Explain the configuration of web server.b) What do you mean by DHCP, DHCP server and DHCP client? How DHCP works? Explain.

6. a) What do you mean by DNS and reverse DNS? Explain BIND software. 8

b)Explain the creation of database with MySQL. How can we load data from a file to MySQL database?

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25

7. Write short notes on: (Any two)

a) Linux Distros

b) Kudzu

c) File Security

2

POKHARA UNIVERSITY

Level: Bachelor Semester: Fall Year:2016

Programme: BCA Full Marks: 100

Course: Linux Pass Marks: 45

Time: 3hrs.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

a) Why Linux operating system is so popular? Differentiate between open source software and freeware.

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b) What do you mean by booting? Define the function of following 8command with examples. (8)

a. Is-lJ

b. df.J

c. duJ

d. chmod 741J

e. top.

f. touch meJ

g. fdisk-1」

2. a) Write step by step procedure to install Red-Hat Linux from DVD 7

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b)What is Kudzu? What are the module configurations commands write with example of each?

a) What do you mean by run level? Explain different run level with their function.

b)What do you means by disk quota? Write the steps of setting user disk quotas.

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4. a) Explain the file permissions in detail. 7

b) For what we need backing-up and restoring features in operating system? Explain backing up strategies.

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5. a) Explain the procedure of setting up of web server? How a web site 8

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can be hosted in LAN using Linux?



b) Why DHCP server is necessary? Explain about the configuration file used?

6. a) What do you means by database server? Write the configuration for mysql database server?

b) How can you configure DNS server in Linux system? Write down the configuration files.

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7. Write short note on any two:

a) ISP simulation

b) Vi text editor

c) Root login vs super login

2

POKHARA UNIVERSITY

Level: Bachelor Semester: Fall Year :2018

Programme: BCA Full Marks: 100

Course: Linux Pass Marks: 45

Time: 3hrs.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

1. a) “IT is running on cloud and cloud is running on Linux.” Justify the statement.

b) Write the purpose of following directories in Linux.

1) /home v) /dey

ii) /boot

iii)/tmp vii) /proc

iv)/root

b) What is SUDO? Why not use root account all the time? Explain.

viii)/etc

2. a) What is initrd? Explain the stages of Linux boot process.

a) What are modules on Linux system? How do you use them? Explain.

x3.

b) Explain the following user management commands with example of each.

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useradd, usermod, groupadd, userdel α

4. a)\_What do you mean by Shell Script? Write a shell script program to find7the largest integer among given three integers.

b)What do you mean by shadow password file? Explain how you can 8make your password more secure and stronger.

5. 4) What do you mean by web server? Why are they needed? Explain. 7

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b) What do you mean by DHCP,DHCP server and DHCP client? How

DHCP works? Explain.

6. a) Why is DNS important? Explain the process of DNS configuration in

Linux.

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b) What do you mean by database server? Explain the configuration of

database server in linux.

7. Write short notes on any two: 2x5

(a) Command shell

(b) File Permissions

(c) ISP Simulation

POKHARA UNIVERSITY

Level: Bachelor Semester:Spring Year :2018

Full Marks: 100

Programme: BCA

Course: Linux Pass Marks: 45

Time : 3hrs.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

1. a) How does open source becomes famous? Write the advantages of 8Linux over other operating system.7

b) What is Grub? What is the configuration file for grub loader? Explain.

2. a)Write a shell script to find the largest among the four numbers.

b) Give hardware requirement for installing Linux operating system. Also elaborate the steps for installing the Red-Hat Linux from digital optical disc storage?

3. a)What are roles and responsibilities of a Linux administrator in Linux system?

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4. a)What is Backup and Restore? Explain any two backup tools available 8in Linux?

b) Explain the procedure of adding, removing and modifying user

accounts in Linux with necessary commands and examples?

b) How can you maintain the security in Linux? Write down the security 7check list in Linux.

5.a)What is DHCP server? How can you configure DHCP server and 8client?

b) Explain the procedure of setting up of web server? How a web site can 7be hosted in LAN using Linux?

6. a) What is MYSQL Database? Write the configuration file and setting for 8MYSQL Database.7

b)What is BIND Server? Define configuration settings for DNS server.

7. Write short notes on any two: 2x5

a) Run level in linux

b) Simulation of ISP

c)Kudzu Hardware Detection

d) DNS Server

2

POKHARA UNIVERSITY

Level: Bachelor Semester: Fall Year :2019

Programme: BCA Full Marks: 100

Course: Linux Pass Marks: 45

Time : 3hrs.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

1. a) Explain the Linux with its architecture. What are the different 3+5Linux distribution? Explain any two.

b) Define term 'culture of free software'? How Linux and UNIX is related? Explain.

2. a) Define and explain Shell? Differentiate between TCSH and 5+3KSH?

b)What are the different Linux supporting files? Explain.5+2Differentiate between ext2, ext3 and ext4 file system.

3. a) What is general partitioning scheme while installing Linux 8Operating System and what do you prefer or recommend?

b) How can you monitor system performance in Linux? Explain 7with example

4. a) What are different run levels in Linux? Explain method to 8change these run levels.

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b) Write the function of following command with example.rpm -i, fdisk -1,at, iptables, alias, chgrp, chmod, man, pstree,nslookup

5. a) Write a program to check whether a given number is prime or not using shell scripts.

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b) How can you manage for scheduling a job in Linux, explain with8example.

6. a) What is MYSQL? What are the packages and configuration of 7MYSQL?

b)What is DHCP server? Define packages and configuration 8settings for both client and server sites.

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7. Write short notes on any two:

a) UNIX System

b) DHCP Message

c) Mounting and un-mounting

2

POKHARA UNIVERSITY

Level: Bachelor Semester: Fall Year :2022

Programme: BCA Full Marks: 100

Course: Linux Pass Marks: 45

Time :3hrs.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt'all the questions.

1. a) Why Linux operating system is so popular? Differentiate between open-source software and freeware software.

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b) Define the'function of following commands with examples: 8

ifconfig

ii, du·

top

chmod 741

nslookup

vij.touch

2.a)Explain Partitioning in Linux? Define main partitions required 7during Linux installation.

b) What are the improvements offered by BASH shell. Write a shell8script program to find the given number is palindrome.

3.a)What is a root user? Explain the methods to monitor system 8performance in Linux Environment.

Explain the symbolic and absolute method for giving permission to a file. Change the permission of a file named GPT.sh

(1) write only by owner (2) read and execute by other (3) Execute by all(4)read by owner, write by group, read by others

4. How can you schedule jobs in Linux? Explain with an example.

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b)What is Kudzu? What are the module configurations commands 8write with example of each?

5. a) How do you configure the host name and ports of a web server?Write down the steps to install, configure and start the web server (e.g.apache2) in brief.

7

Page I of 2

What is the purpose of DHCP Server? Explain DORA Process in 8detail,

6. a) What is a MYSQL Database server? Explain the configuration file of MYSQL·Database server in Linux.

b) If you are a system engineer for Linux based networks, how would you set up a DNS server and which GNU/Linux based operating system would you choose? Elaborate your answer.

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7. Write short notes on any two: 2x5

a) ISP simulation

b) Vi text editor

c) Root login Vs super login

Page 2 of 2

POKHARA UNIVERSITY

Level: Bachelor Semester: Fall Year :2020

Programme: BCA Full Marks: 100

Course: Linux Pass Marks:45

Time :3hrs.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

1.a) Why is Linux operating system popular? Differentiate between 7open source software and freeware.

b) What is a shell? Explain Linux file system. 8

2. a) What is MBR and GPT? Explain the boot process in Linux. 7

b) What is Kudzu? What are the module configurations 8commands? Explain with example of each.

3. a)Write the syntax for the file permission for the file system for a 8given filename “file.sh" for following conditions:

i. read write execute by owner

ii. read by all

iii. Execute by anybody

iv. read by owner, write by group, read by others

b) What do you mean by disk quota? Write the steps of setting user7disk quotas.

4. a) Explain system task scheduling using crontab. How do you8restore files from your backup data? Explain.

b) Define KSH. Write a shell script program to check a given 7number is prime number.

5. a) Explain the procedure of setting up of web server? How a web8site can be hosted in Linux?

b) Why DHCP server is necessary? Explain about the configuration 7file.

6. a) Write the steps to start,stop and configure MYSQL server in8Linux.

b) How can you configure DNS server in Linux system? Write 7down the configuration files.

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7. Write short notes on any two:

a) ISP simulation

b) Database server

c) Root login Vs super login

2x5

2

POKHARA UNIVERSITY

Level: Bachelor Semester: Fall Year :2021

Programme: BCA Full Marks: 100

Course: Linux Pass Marks: 45

Time : 3hrs.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

1. a) “IT is running on cloud and cloud is running on Linux.”Justify the statement.

7

b) Define and explain Shell? Differentiate between TCSH and KSH? 8

2. a) What are the different Linux supporting files? Explain. Differentiate between ext2, ext3 and ext4 file system.

b) What is disk partition? Write about disk partition naming and numbering convention in Linux. What is fdisk command use for,explain.

3. a) What is root account and root directory? How can you switch user in Linux from terminal? Also explain the importance of sudo command.

b) What do you mean by Shell Script? Write a shell script program to find the largest integer among given three integers.

4. a) Explain the following user management commands with example of each.

useradd, usermod,groupadd, userdel

b) Differentiate between Ful and Incremental Backup. What is disk mirroring? Explain the process of creating backup with tools you know.

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5. a) What do you mean by web server? Why are they needed? Explain. 7

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b) What is DHCP server? Define packages and configuration settings for both client and server sites.

6. a) What is MYSQL? How can you configre MYSQL on Linux OS? 7

b) Explain about DNS and its importance. List configuration process of 8DNS server in Linux.

Page 1 of 2

7. Write short notes on any two:

a) Df and Du Command

b) Integration of Server

c) File Permissions

2x5

Page 2 of 2



POKHARA UNIVERSITY

Level: Bachelor Semester-Fall Year :2017

Programme: BCA Full Marks: 100

Course: Linux Pass Marks: 45

Time : 3hrs.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

a)What is linux file System? Explain file system hierarchy with their 7special purposes in linux.

b) What do you mean by partioning? Explain about main partioning 8required while linux installation.

2. a) What is role of super user in linux? Explain about some tools to monitor system performance in linux.

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(b)Write the command Syntax for the following purpose. 8

i) To create a user “Linux” with password “redhat”

ii) To change the password for that user to “fedora”

iii) To create a group “Hackers”

iv) After all assign the group “Hackers” for the user "“Linux”

V) After all provide comment name “Blackcat” and login shell “bash” for that user.

vi) Then assign the expiry date for that user account.

vii) To delete that group

viii) To remove that user

3. a) What is Backup and Restore? Explain any one Backup tool in Linux. 7

b) How can you make secure files in Linux? Explain. 8

4. What are modules on Linux system? How do you use them? Explain.

7

b) What do you mean by Disk Quata? Write the process of implementing Disk Quata in Linux.

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5.a What is role of DNS? Explain DNS configuration process in linux 7with example.

b) Why is Apache Web Server popular? Discuss Apache Web Server 8configuration.

1

6. a) What is the purpose of DHCP server in computer network?Write the process of configuring DHCP server and client.

b) What is Databasc Server? Explain configuration setting for MYSQL as database server.

7. Write short notes on apy two:

a) Scheduling System Tasks.

7

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2x5

b) Integration is servers.

c)Linux vs. Unix

2

POKHARA UNIVERSITY AFFILIATE

GRANDEE INTERNATIONAL COLLEGE

Final Assessment Year:2018

Programme: BCA VII Full Marks: 100

Course: Linux Pass Marks: 50

Time :3hrs.

-Candidates are required to give their answers in their own words as far as practicable.









Attempt all the questions.

What do you understand by Linux Kernel? Is it legal to edit it? 8Explain the term GUI?

How can you determine the total memory used by LINUX? Why 7Linux is considered as more secured than other operating systems?

What are daemons? Enlist some Linux networking and 8troubleshooting commands?

7

Explain the procedure of setting up of web server? How a web site

can be hosted in LAN using Linux?









Give hardware requirement for installing Linux operating system.

Also elaborate the steps for installing the Red-Hat Linux from DVD?

Explain the procedure of adding, removing and modifying user accounts in Linux with necessary commands and examples?

What do you mean by DNS and reverse DNS? Explain BIND software.

What do you mean by Linux Shell? What is ksh? What are the basic differences between BASH and DOS?

What is crontab and explain its functionality and explain the format of crontab? What do you understand by CLI?

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Explain the file permissions in detail. 7

What do you mean by LILO? What is GNU.GRUB? What is Linux swap partition and what does it do?

.What do you mean by run level? Explain different run level with their function

8

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7. write short notes on :(any two) 2x5

a) File Security

b)ISP Simulation

c) NIS Server