a) mv

b) chgrp



SLIATE

SRI LANKA INSTITUTE OF ADVANCED TECHNOLOGICAL EDUCATION

(Established in the Ministry of Higher Education, vide in Act No. 29 of 1995)

Higher National Diploma in Information Technology Second Year, Second Semester Examination – 2015 HNDIT2402 Free and Open Source Software

tructions for Candidates: question carry equal marks t II carries 05 structured short questions ar	No. of pages : 4 Time : 2 hours and answer any four questions
	Part-I
1. Who is creator of Linux?	
a) Linus Torvalds	c) Eric.S.Raymond
b) Richard Stallman	d) MIT
2. An example of free software licer	ase / open source license is
a) Apache License	 c) Database License
b) Oracle License	d) Software License
3. Default Linux shell is	
a) nash	c) bash
b) rash	d) lash
4. What is the key combination for l	logging out current shell session?
a) Ctrl + a	c) Ctrl + c
b) Ctrl + b	d) $Ctrl + d$
5. What is the Linux command to pr	rint your working directory?
a) pwd	c) wd
b) pcd	d) ls
	ge permissions of files and directories?
6 Which command is used to change	ge permissions of files and unectories:

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c) chmod

d) set

			•	
7.	a)b)c)	Created : Created : Created :	the command mkdir -p Data, what would happen? a directory Data and Printed a directory Data a parent directory Data a private directory Data	
	a) b)		esents the user home directory $\begin{array}{c} c) \\ d) \sim \end{array}$	
9.	Pro a) b)	DNS (D SNMP (SMTP (d be used to automatically configure host computers for IP (Integral of Name Service) Simple Network Management Protocol) Simple Mail Transfer Protocol) Dynamic Host Configuration Protocol)	ernet
10	a) b) c)	mail.	d open-source mail transfer agent (MTA) that routes and deliver is suitable if you have no need to check your email in multiple is the most recent version of a standard protocol for receiving e	locations
		ii	Define the term Open Source Software What are the four advantages of having open source software Briefly explain the concept of "Dual Licensing" Give Three examples for closed source freeware Write short notes on the followings: a) GNU b) FOSS business model	(2 marks) (4 marks) (3 marks) (3 marks) (8 marks)

	and the second s	
_	discuss about Linux Shell and Kernel using a diagram.	(4 marks)
	Jame three Shell types in Linux.	(3 marks)
i. N	Briefly explain below file management commands.	(5 marks)
) ls	
) cd	
) mkdir	
) cp	
e	e) mv	
_	Assumed you have opened the terminal and now you are in your hor	me directory. In
_	ways home directory there is a text file named as mylnjo.txt.	(O marks)
	Write a command to find the word ATI in myInfo.txt file using	grep.
1	b) How to open myInfo.txt file in append mode using cat comman	d.
ı	Rename the file myInfo.txt as myTextFile.txt using command.	
/. ¹	Write suitable Linux shell command to display below user/ memory	information.
<i>/</i> .	YY THE Summer Property	(2 marks)
	Display current user's account name.	
i	b) Display all users logged in.	
	Write down appropriate commands in Linux for the following when	re necessary:
•	Write down appropriate commands in Linux for the following when	lialius
•	of the user creation procedure in a terminal with collin	nt password is
a)	Clearly discuss the user creation procedure in a terminal with common (Hint: You are logged in terminal as Student user, and root accounts.)	nt password is (2 marks)
i. a)	Clearly discuss the user creation procedure in a terminal with common (Hint: You are logged in terminal as Student user, and root account HNDIT)	nt password is (2 marks) (4 marks)
a) b)	Clearly discuss the user creation procedure in a terminal with common (Hint: You are logged in terminal as Student user, and root account HNDIT) Create a new user as beckham with home also as beckham	(2 marks) (4 marks) (1 mark)
i. a) b) c)	Clearly discuss the user creation procedure in a terminal with common (Hint: You are logged in terminal as Student user, and root accound HNDIT) Create a new user as beckham with home also as beckham Also assign password as david to beckham	(2 marks) (4 marks) (1 mark) (1 mark)
i. a) b) c) d)	Clearly discuss the user creation procedure in a terminal with commit (Hint: You are logged in terminal as Student user, and root account HNDIT) Create a new user as beckham with home also as beckham Also assign password as david to beckham Create a group called SPORTS	(2 marks) (4 marks) (1 mark)
i. a) b) c) d)	Clearly discuss the user creation procedure in a terminal with common (Hint: You are logged in terminal as Student user, and root accound HNDIT) Create a new user as beckham with home also as beckham Also assign password as david to beckham	(2 marks) (4 marks) (1 mark) (1 mark) (5 marks)
a)b)c)d)e)	Clearly discuss the user creation procedure in a terminal with commit (Hint: You are logged in terminal as Student user, and root account HNDIT) Create a new user as beckham with home also as beckham Also assign password as david to beckham Create a group called SPORTS Add beckham to SPORTS	(2 marks) (4 marks) (1 mark) (1 mark) (5 marks)
a)b)c)d)	Clearly discuss the user creation procedure in a terminal with commit (Hint: You are logged in terminal as Student user, and root account HNDIT) Create a new user as beckham with home also as beckham Also assign password as david to beckham Create a group called SPORTS	(2 marks) (4 marks) (1 mark) (1 mark) (5 marks)

What is the purpose of process management in Linux Operating System? (4 marks) Write down the output of following process management commands? (4 marks) ii. a) Top b) Ps Briefly explain the attributes used in the file and directory permissions? (4 marks) iii. Describe the following security privileges of two files? Sample.txt - 0640 Test.java-766 ls -l command display the current file permission Test.java as follows. rw-rw-r-Write the file permission commands to complete following tasks? (4 marks) a) Add the execute permission for group b) Add the write permission for guests. c) Remove write permission from all. d) Change into new owner Saman 5. (2 marks) What is Internet Message Access Protocol? i. (4 marks) ii. What is the major functionality of samba server? An additional feature offered by many proxy server applications is caching, such a server is known as a caching proxy server. Explain benefits of having cashing proxy (4 marks) (3 marks) What is the command to remove DHCP server? iv. (3 marks) What is web server? V.

Briefly explain the use of Apache server in FOSS development

vi.

(4 marks)