<u>Exam1</u>	<u>Question</u>
1.	A protocol is (rule for communication)
2.	You accept services from an Access Service Provider and provide internet access to
	individual users. You are an (Internet Server Provider)
3.	You are using vim and are in normal mode. You're finished editing the file and realize
	you messed up royally. You want to exit vim without saving the changes. What keys (in
	order) will allow you to do this? (:q!)
4.	The ~ character is called (tilde)
5.	Write the command that will create an empty file named timing.doc
	(touch timing.doc)
6.	Write the command that allows for a user to have additional, more powerful commands at
	his/her disposal (sudo)
7.	Write the command that will remove a directory named stocks (rmdir stocks)
8.	A directory structure as used in Linux, Windows and other operating systems is called a
	(tree)
	Directories are used for what purpose? (organize files)
10.	Write the command that will create a hidden directory named Dancers
	(mkdir .Dancers)
11.	Write the command that will create a directory named Singers
	(mkdir Singers)
12.	What command uses SSH protocols to copy files from one computer to another
	(scp)
	What command does a Domain Name Server lookup? (dig)
14.	You want to lookup your IP information on a Windows computer. What is the proper
	command to use? (ipconfig)
	What command changes the permissions on a file? (chmod)
	What tool will produce a list of all packages installed on the system? (dpkg)
	What is the name of the Penguin? (Tux)
	Write the command to display the Dot Quad for time.com. (dig time.com)
19.	Using output redirection, you want to produce a listing of all files/folders in a long format
	display of information. The listing will show all hidden files and directions along with all
	permissions. The output file is to be called list.txt. Write the full command to achieve this
20	goal (ls -al > list.txt) What command will show the data and time (data)
	What command will show the date and time (date) Write the command that will list all the files/hidden
21.	
	files/subdirectories/hiddensubdirectories in a directory but display to the screen only
	those lines with the text "Bashrc" (note - quotes are used for clarity - you will be
22	searching for text in a string but not with double quotes) (ls -al grep Bashrc)
22.	What command will take you absolutely to the root directory? (cd /)

23. What is the full command that will produce a list of all Debian packages installed on the
system? (dpkgget-selections or dpkg-query -l)
24. When using HTTP, who initiates a transfer request? (client)
25. When using HTTP, who responds to a transfer request? (server)
26. A request is used to send data to the server, for example, customer
information, file upload, etc. using HTML forms. (post)
27. What is a computer that hosts websites (web server)
28. What is a common program used as a web server? (apache)
29 is a web server written in Java and runs Java http servlets. (Tomcat)
30. What term means "data about data"? (metadata)
31 is a style sheet language used for describing the presentation of a document
written in a markup language. (Cascading Style Sheets)
32. Using a tool to HTML ensures you are meeting specifications. (validate)
33. In an HTML web page, we use tags to tell the browser what to do. What are the two tags
to tell HTML where is the beginning and the end of the Head section of the page? Write
them out fully and clearly, just as if you were entering the tags at a keyboard.
<head> </head>
34. In a HTML web page, we use tags to tell the browser what to do. What are the two tags to
tell HTML where is the beginning and the end of the title section of the page? Write them
out fully and clearly, just as if you were entering the tags at a keyboard.
<title> </title>
35. In what section of a web page would include Javascript? (head)
36. Search engines work by using programs to visit a web page and extract all the
references (links) from that page. (spiders)
37. Using dramatically speeds up the entire page load process. (cache)
38 is a set of Web development techniques using many Web technologies on the
client side to create asynchronous Web applications. (AJAX)

Potential Exam Questions:

What command uses http program to retrieve data from remote server?

wget

What command uses SSH protocols to copy files from one computer to another

scp

What command does a Domain Name Server lookup?

dig <name>

What command tries to find the path to the remote server

traceroute <name>

You want to lookup your IP information on a Windows computer. What is the proper command to use?

ipconfig

You want to lookup your IP information on a Linux computer. What is the proper command to use?

ifconfig

What command changes the permissions on a file?

chmod

Linux sees everything as a file

What tool will produce a list of all packages installed on the system?

dpkg

The linux which command is used to find the location of a program.

What is the name of the Penguin?

Tux

Lab:

The traceroute command can show you the path a packet takes from one computer to another.

You want to find the Dot Quad for the time.com website. Write out the command

dig time.com

What command will list the path packets will take to connect your computer to the AKC.org website?

traceroute AKC.org

Using output redirection, you want to produce a listing of all files/folders in a long format display of information. The listing will show all hidden files and directories along with all permissions.

The output file is to be called out.txt. Write the full command to achieve this goal.

ls -al > out.txt

What command will show the date and time?

date

Add date to the out.txt file

date >> out.txt

Write out the command to display the contents of the file OutsideLogins.log

cat OutsideLogins.log

Write the command to display the Dot Quad for agoogleaday.com.

dig agoogleaday.com

Write the command that will list all the files/hidden files/subdirectories/hiddensubdirectories in a directory but display to the screen only those lines with the text "Bashrc" (note - quotes are used for clarity - you will be searching for text in a string but not with double quotes).

Is -al | grep Bashrc

You are in your home directory. You need to create a subdirectory named Textbooks. Write the command to do this.

mkdir Textbooks

What command will take you absolutely to the root directory?

cd /

What command will take you to your home directory?

cd ~

What is the full command that will produce a list of all b packages installed on the system?

dpkg --get-selections

Assume that mysql is installed on a system. Which command will display the version number of mysql?

mysql --version

Write the command that will create a hidden directory named Special

mkdir .Special

Listing the files in the root (starting) directory

ls /

Purpose of Directories: directories are used to help organize files

A directory structure as used in Linux, Windows and other operating systems is called a tree Write the command that will remove a directory named Walker

rmdir Walker

Write the command that will remove a file named Walker

rm Walker

Write the command that allows for a user to have additional, more powerful commands at his/her disposal.

sudo

Write the command that will create an empty file named Superman.txt

touch Superman.txt

The ~character is called the tilde

You would use the to separate the commands/binaries

date > out.txt; traceroute justflipacoin.com >> out.txt; date >> out.txt

Your the present working directory

pwd

HTTP:	
http	is a generic protocol that transfers content.

http consists of a request and a response message sent over a socket.
When using HTTP, who initiates a transfer request?Clients
When using HTTP, who responds to a transfer request?Server
TheGET method is used to retrieve information from the given server using a given
URI. Requests using this method should only retrieve data and should have no other effect on
the data.
APOST request is used to send data to the server, for example, customer
information, file upload, etc. using HTML forms.
HTTP Requests: Status Codes
•1xx: Informational - It means the request has been received and the process is continuing.
•2xx: Success - It means the action was successfully received, understood, and accepted.
●3xx: Redirection - It means further action must be taken in order to complete the request.
•4xx: Client Error - It means the request contains incorrect syntax or cannot be fulfilled.
•5xx: Server Error - It means the server failed to fulfill an apparently valid request.
What is a computer that hosts websitesWeb Server
What is a common program used as a web server?Apache
Name the language module that runs inside of ApachePHP
Tomcat is a web server written in Java and runs Java http servlets.

HTML - Hypertext Markup Language
What term means "data about data"?Contains Metadata
What term means data about data :orntains wetadata
Cascading Style Sheets (CSS) is a style sheet language used for describing the
presentation of a document written in a markup language.
presentation of a document written in a markup language.
Using a tool tovalidate HTML ensures you are meeting specifications.
osing a tool tovalidateTTTIME crisules you are meeting specifications.
In an HTML web page, we use tags to tell the browser what to do. What are the two tags to tell
HTML where is the beginning and the end of the Head section of the page? Write them out fully
and clearly, just as if you were entering the tags at a keyboard.
<head> </head>
In a HTML web page, we use tags to tell the browser what to do. What are the two tags to tell
HTML where is the beginning and the end of the Body section of the page? Write them out fully
and clearly, just as if you were entering the tags at a keyboard.
<body> </body>
In a HTML web page, we use tags to tell the browser what to do. What are the two tags to tell
HTML where is the beginning and the end of the title section of the page? Write them out fully
and clearly, just as if you were entering the tags at a keyboard.

<title> </title>

In what section of a web page would include CSS?head
In what section of a web page would include Javascript?head
In what section of a web page would include the title?head
In what section of a web page would include content?body TagsENCLOSE a set of information.
In a HTML web page, we use tags to tell the browser what to do. What are the two tags to tell HTML where is the beginning and the end of a paragraph? Write them out fully and clearly, just as if you were entering the tags at a keyboard.
In a HTML web page, we use tags to tell the browser what to do. What are the two tags to tell HTML where is the beginning and the end of a part of the page that is to be boldface? Write them out fully and clearly, just as if you were entering the tags at a keyboard. <br< td=""></br<>
One of the things that make the World Wide Web is a collection ofLINKS to other documents.
The web is based onHYPERTEX, that is, text with built-in links to other data
In an HTML web page, we use tags to tell the browser what to do. What are the two tags to tell HTML where is the beginning and the end of a hyperlink? Write them out fully and clearly, just as if you were entering the tags at a keyboard.
Search engines work by using programs (spiders) to visit a web page and extract all the references (links) from that page.
Links help definemeaning
Usingcache dramatically speeds up the entire page load process.
Javascript is an object-oriented computer programming language commonly used to create interactive effects within web browsers.
AJAX is a set of Web development techniques using many Web technologies on the client side to create asynchronous Web applications.

Vim:
Exit editor discarding any changes
<mark>:q!</mark>
Exit editor and save any changes
:wq!
Two mode for vim
Normal mode and Editor mode
Make sure you are in the normal mode
Esc key
Insert textPress i
Append textpress A
Delete an entire linepress dd
Undo a changepress u
Thanksgiving Exam Questions:
In HTML, JavaScript code must be inserted between and tags
<script> </script>
A JavaScriptis a block of JavaScript code, that can be executed when
"called" for. Function
separate JavaScript statements. Semicolons
In JavaScript, the symbol(s) means assignment. =
In JavaScript, the symbol(s) means comparison of value. ==
In JavaScript, the symbol(s) means comparison of value and data type. ===
is JavaScript's default behavior of moving declarations to the top.
Hoisting

is a format for storing and transporting data.
<mark>JSON</mark>
What does DOM stand for? Document Object Model
The HTML DOM model is constructed as a of Objects. Tree
AJAX is a developer's dream, because you can data from a web server - after the page has loaded. Read
AJAX is a developer's dream, because you can a web page without reloading the page. Update
AJAX is a developer's dream, because you can data to a web server - in the background. Send
The object can be used to exchange data with a web server behind the scenes. XMLHttpRequest
JavaScript functions can also be looked at as subroutines
There are well over built in functions in PHP. 1000
With PHP, you can connect to and manipulate databases

is the most popular database system used with PHP. MySQL
The data in a MySQL database are stored in tables
Ais a collection of related data, and it consists of columns and rows. table
A database is a question or a request query
Another great thing about MySQL is that it can be to support embedded database applications. scaled down