**Module Test (Practical):**

**Max Marks: 70**

**Duration: 3 hrs**

**Instructions**

* Create a Linux virtual machine having hostname as server1-last 3digits of your emp id.
* Create a word file with your emp-id.docx inside your remote lab server.
* Take screenshots (full Screen) of practical steps, and paste in word file.

**Unix Shell Scripting**

**Max Marks: 30**

1. Create a file result.txt with cat command that should have following data 7

|  |  |  |  |
| --- | --- | --- | --- |
| Sr. No | Name | Marks | Result |
| 1 | John | 250 | Pass |
| 2 | Tom | 191 | Fail |
| 3 | Harry | 151 | Fail |
| 4 | Ben | 322 | Pass |

The fields should be separated by a tab.

1. Display contents of the file result.txt.
2. Copy file content to another file result\_new.txt without using the cp command.
3. Find all users currently working on the system and store the output in a file named as logged-users.txt.
4. Find the name of users who have scored more than 260 marks.
5. Sort the column Marks in ascending order.
6. Create a file using Vi editor named as kernel. Enter the following text: 7

The Linux kernel is the main component of a Linux operating system (OS) and is the core interface between a computer’s hardware and its processes.  
It communicates between the 2, managing resources as efficiently as possible. The kernel is so named because—like a seed inside a hard shell.  
It exists within the OS and controls all the major functions of the hardware, whether it’s a phone, laptop, server, or any other kind of computer.

1. Generate the line number.
2. Insert the word “**vmlinuz**” after kernel word in 1st line
3. Copy the entire second line and paste it twice at end of file.
4. Delete the text **component** from first line.
5. Write a shell script to get current date, time, user name and current working directory. 3
6. Show the list of root’s home folder including hidden files/folders in descending order. 3
7. Write a Shell Script that adds two numbers if provided as the command Line Argument and if the two numbers are not entered it outputs an Error Message  5
8. Consider the following text file emp.txt with below contents 5

Ben manager account 45000

Tom clerk account 25000

Varun manager sales 50000

Amit manager account 47000

Smith peon finance 15000

1. Print the lines which matches with the pattern manager.
2. Write a sed command that will replace the word “peon” with "office-boy”.
3. Write a sed command to print only the lines starting at line 1 and ending with the letters “accounts”.

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**Unix Admin**

**Max Marks: 20**

1. Create a user with your lastname 7
   1. having primary group id as sales and uid as 1000. Add this to secondary group accounts.
   2. Create a file imp.docx having full access for all the users. Prevent others to modify/delete this imp.txt file.
   3. Change the shell for this user as csh.
   4. Move the user’s default home folder to new location -- /newhome.
2. Create a cronjob that should take a backup of /data folder on 10th and 20th June twice at 9am and 5pm. 6
3. Find out the information about all the processes that are currently active. 7
   1. Start a process Firefox with priority value as -15.
   2. Create any running background process that should not get terminated, when terminal is closed.
   3. Change the priority value of running process.
   4. Kill any one of the process gracefully.

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**Windows Admin**

**Max Marks: 20**

1. Deploy a domain corp.com, login as domain user on client machine 6
2. Create a security group hr-users with the group members (Adam, Roger). 2
3. Create a OU named as **hr**, add group **hr-users** into the OU **hr**. Create a group policy that deny hr-users to access registry, taskbar, control panel items. 6
4. Create a service account with your first name, able to manage IIS services. 6