**Module Test (Practical): SET B**

**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 using Vi editor named as **linux.txt**. Enter the following text: 6

Linux is a family of open-source Unix-like operating systems based on the Linux kernel.

An operating system kernel first released on September 17, 1991, by Linus Torvalds.

Linux is typically packaged in a Linux distribution.

Linux bash is command line interpreter.

1. Insert a word **“shell”** after word bash.
2. Search for pattern “**Torvalds”** in a file.
3. Replace text “**kernel”** with **“vmlinuz”** in a file.
4. Write a shell script to print the sum of two numbers, say, 6 and 3. 5
5. Show the last 6 lines of /etc/passwd and first 3 lines of /etc/group file. 3
6. Provide three numbers as command line arguments and display the smallest number in the given three numbers. 6
7. Create a file india.txt using cat command with the below contents 5

India is my country

India is ranked as second largest populated country

I love my country India Mumbai is the metropolitan city in India

1. Show all the lines not having word india.
2. Show all lines having india at the end of the line (ignore the case).
3. Count the number of times, india words appeared in the file. (ignore the case).
4. Replace word “india” with “bharat” using sed command only first occurrence of word “**india**”.
5. Print seven random numbers from zero to 100, inclusive. 5

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**Unix Admin**

**Max Marks: 20**

1. Create a user with your lastname 6
   1. Add user to the secondary group finance, admin
   2. Modify the group id of finance group as 750.
   3. Change the default shell as ksh for a given user.
   4. Display cal, name of current working directory, system date and time after user logs in.
2. Create a cronjob that should delete all files of /imp folder in the month of Jan, May and Oct on 15th at 9:30am and 5:30pm. 5
3. Display the list of all the processes that are currently active with their nice , pid command name and priority value in the output. 6
   1. Show the demo of nice and renice command.
   2. Start the process Firefox, find the pid of top process.
   3. Kill the all the instances of Firefox process.
4. Create a folder “/**reports”** with root user. Change the default group as hr for reports folder and assign full access to all the users. Retain the default group as **hr** for all the folders/files that users are going to create inside reports folder. 3

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**Windows Admin**

**Max Marks: 20**

1. Deploy a domain india.com, login as domain user on client machine 6
2. Create a user **john**, **DL1**(Domain local), **hr** (global) and **sales** (universal). Make john user and **hr** and **sales** group a member of DL1. Change the group scope of DL1 to Universal. 3
3. Monitor the System event using Event Viewer, shows only critical events and store the output into file “log.docx” 3
4. Create a OU **IT**, add group IT-users into the OU **IT**. Create a group policy that deny IT-users to access command prompt, registry. Also disable the right click for desktop. 6
5. Set the logon time for user **John** between 9am-5pm Monday to Friday. 2