**Module 1[Installation and Maintenance of Hardware Components]**

**Topic: User Management**

* **Assignment Level Basic**

1. What is user management?

Ans. User management (UM) is defined as the effective management of users and their accounts, giving them access to various IT resources like devices, applications, systems, networks, SaaS services, storage systems, and more.

1. Why is user management needed?

Ans. User management is needed to ensure security and the CIA triad within the users.

* **Assignment Level Intermediate**

1. Where can we access user management?

Ans. We can access User management via ‘change user Account Control settings’ in the Control Panel.

1. What are the features of the user management?

Ans. The features of the user management are:

* Overview of the User Management Module.
* WebLogic Integration Users, Groups, and Roles.
* Security Provider Requirements for User Management.
* Listing and Locating Users.
* Adding a User.
* Viewing and Changing User Properties.
* Listing and Locating Groups.
* Adding a Group
* **Assignment level Advance**

1. Do a practical to create a user from user management.

Ans. Done in lab.

1. Do a practical to change the password of the administrator from the user management tool

Ans. Done in lab.

**Topic: File and Folder Permission**

* **Assignment Level Basic:**

1. What is file folder permission?

Ans. It is the permission given to admin and other user with permission of what type of access they have over file.

1. What is the use of file and folder permission

Ans. It is for the safety of the CIA.

* **Assignment level Intermediate:**

1. write down the steps to give a folder read only permission.

Ans. Done in lab.

1. Write a step to give a file only admin permission

Ans. Done in lab.

* **Assignment level Advance:**

1. Do a practical to give the folder permission of read only in network.

Ans. Done in lab.

1. Do a practical to change the ownership of the folder and the sub folders in it.

Ans. Done in lab.

**Topic: Install OS**

* **Assignment Level Basic**

1. What is OS?

Ans. An OS is an intermediate between user and hardware or we can say it is a type of software which manages hardware.

1. What are the types of OS

Ans. The different type of OS are :

* Batch OS
* Network OS
* Multitasking/Time Sharing OS.
* Multiprocessing OS.
* Real Time OS.
* Distributed OS.
* Network OS.
* Mobile OS.
* **Assignment Level Intermediate**

1. Do a practical to create bootable pen drive for kali Linux

Ans. Done in lab.

1. Do a practical to create a bootable pen drive for windows 7

Ans. Done in lab.

1. Do pen drive for creating a pen drive for mac OS Mojave with unibeast

Ans. Done in lab.

* **Assignment level Advance:**

1. Do a practical to install Kali Linux

Ans. Done in lab.

1. Do a practical to install windows 10

Ans. Done in lab.

1. Do a practical to install Mac os X

Ans. Done in lab.

**Topic: Clean Install**

* **Assignment Level Basic**

1. What is clean install?

Ans. A clean install is **a software installation in which any previous version is**  **eradicated**.

* **Assignment Level Intermediate**

1. What is the process for clean install?

Ans. There may be two processes for clean install. First is directly uninstalling the application and reinstalling it. And second is the upgradations of the application after uninstalling from the same setup file.

1. what are the benefits of clean install?

Ans. The old patches are removed and new security is applied.

* **Assignment level Advance:**

1. Do a clean installation of windows XP

Ans. Done in lab.

1. Do a clean installation of windows 8

Ans. Done in lab.

**Topic: Upgrade installation**

* **Assignment level basic**

1. What is upgrade installation?

Ans. An in-place upgrade install involves **using the Windows OS installer to replace all the operating system files for Windows 10 on a PC**.

1. What is the benefit of upgrade installation?

Ans. We doesn’t have to uninstall an application and reinstall it.

* **Assignment level intermediate:**

1. Write down the steps of upgrade installation

Ans. Done in lab.

* **Assignment level advance.**

1. Do a practical to upgrade from windows 8 to windows 10.

Ans. Done in lab.

**Topic: Partition & Formatting**

* **Assignment level Basic**

1. What is partitioning?

Ans. The method of dividing a disk into two or more simpler parts is known as partitioning.

1. What is partition?

Ans. The part which is created after partitioning is known as partition.

1. What is format?

Ans. The method of deleting whole data is known as format.

* **Assignment level Intermediate:**

1. Do a Practical of mbr partition.

Ans. Done in lab.

1. Do a Practical of gpt partition

Ans. Done in lab.

* **Assignment level Advance:**

1. Do a practical using cmd.

Ans. Done in lab.

1. covert a partition to gpt by cmd

Ans. Done in lab.

1. Format a partition using cmd

Ans. Done in lab.

**Topic: Transferring Files**

* Assignment level Basic

1. What is transferring Files?

Ans. The method of sharing file between user is known as transferring files.

1. What are the ways of transferring files?

Ans. There may be more than two ways for sharing files which is via sharing file to in a network(connected with lan) or online.

* **Assignment level Intermediate:**

1. Do a practical to transfer files from one system to another via network.

Ans. Done in lab.

1. Do a practical to transfer data from one hard disk to another.

Ans. Done in lab.

**Topic: Administrative tools**

* **Assignment Level Basic**

1. What are administrative tools?

Ans. The tool which are used for administrative procedure or controlling the administrative permission is known as administrative tools.

1. What is the use of administrative tools?

Ans. The administrative tool is used for administrative procedures.

* **Assignment level Intermediate:**

1. List out the administrative tools.

Ans. Component Services.

* Computer Management.
* Defragment and Optimize Drives.
* Disk Cleanup.
* Event Viewer.
* iSCSI Initiator.
* Local Security Policy.
* ODBC Data Sources.

1. What is disk management tools.

Ans. The tool which are used for managing the disk in disk management is known as disk management.

* **Assignment Level Advanced**

1. Do a practical to delete a driver and reinstall it from administrative tools.

Ans. Done in lab.

1. Do a practical to delete a partition and again create it with administrative tool

Ans. Done in lab.

1. Do a practical to create user with administrative tool.

Ans. Done in lab.

**Topic: Windows Feature.**

* **Assignment Level Base**

1. What are windows features?

Features of windows

* Speed. ...
* Compatibility. ...
* Lower Hardware Requirements. ...
* Search and Organization. ...
* Safety and Security. ...
* Interface and Desktop. ...
* Taskbar/Start menu.
* **Assignment level Intermediate**

1. List out the windows features.

Ans. Same as above.

* **Assignment level Advance:**

1. Do a practical to re install IIS with windows feature.

Ans. Done in lab.

1. Do a practical to install dotnet framework 3.5 with Windows feature.

Ans. Done in lab.

1. a practical to disable internet explorer in windows feature.

Ans. Done in lab.

**Topic: Backup & Restore**

* **Assignment level Basic**

1. What is backup?

Ans. Backup is copy of important data at alternative or different location.

1. What is Restore?

Ans. The method of restoring the PC to a specific time at which we had created a restore point is known as restore.

1. What is the need of backup

Ans. In case if our OS crashes or our hard disk get corrupted the backup is the place where we can recapture data.

**Assignment level Intermediate.**

1. What are the tools of backup?

Ans. There are many types of backup tools available online as well as cloud where we can do our backup.

1. How do we restore?

Ans. Done in lab.

1. How to create a restore point?

Ans. Done in lab.

* **Assignment level Advance:**

1. Do a practical to create restore point

Ans. Done in lab.

1. Do a practical to restore from restore point.

Ans. Done in lab.

1. Do a practical to take backup from another system.

Ans. Done in lab.

1. Do a practical to take backup with a recuva backup tool

Ans. Done in lab.

**Topic: Disk Management**

* **Assignment level Basic:**

1. What is Disk management?

Ans. The method of managing the disk accordingly to the user is known as disk management.

1. What is the use of disk management?

Ans. If one drive get corrupted then other drive get uneffected and your important data you can retrieve.

1. What are the merits of Disk management tool?

Ans. The disk management tools are used for managing the disk.

* **Assignment level Intermediate:**

1. Do a practical to create a new partition with disk management tool.

Ans. Done in lab.

1. Do a practical to convert from MBR to gpt from disk management tool

Ans. Done in lab.

1. Do a practical to create new partition from existing partition

Ans. Done in lab.

**Topic: Device Management**

* **Assignment level Basic:**

1. What is Device Management?

Ans. The method of managing the device is known as device management.

1. What is the need of device management?

Ans. Device management is **the process of managing the implementation, operation and maintenance of a physical and/or virtual device**.

1. What are the benefits of Device management?

Ans. The device management are used to manage devices safely.

* **Assignment level Intermediate:**

1. Where can we access device management?

Ans. Done in lab.

* **Assignment level Advance:**

1. Do a practical to add a device with device management tool.

Ans. Done in lab.

1. Do a practical to delete a driver from the device management tool.

Ans. Done in lab.

**Topic: Physical security**

* **assignments Level Basic**

1. Why physical security needed?

Ans. The physical security is needed because many times virus can also attack our computer via physically installing removable devices.

1. what is physical security?

Ans. The security which is provided physically is known as physical security.

* **Assignment Level Intermediate**

1. list out the ways of physical security.

Ans. Ways for Physical security.

* Natural surveillance.
* Security lighting.
* Alarm systems and sensors.
* Video surveillance.
* Mechanical access control systems.
* Electronic access control systems.
* Identification systems and access policies.

**Topic: Firewall settings**

* **Assignment level basic:**

1. What is firewall?

Ans. A firewall is a type of filter which restricts unwanted thing from internet.

1. Why is firewall needed?

Ans. A firewall is needed so that we doesn’t get install unwanted thing from the internet.

* **Assignment level Intermediate:**

1. Do a practical to allow any desk through firewall.

Ans. Done in lab.

1. Do a practical to turn off the services of firewall.

Ans. Done in lab.

1. Do a practical to block ip messenger to access the network.

Ans. Done in lab.