VII Work Situation:

n. Faculty will demonstrate different types of Computer System.

b. Faculty must form a group of two or three students.

b. Faculty must form a group of two of three states of computer system with its specification.

VII	I Resources requir			
S. No.	Instrument /Object	Specification	Quantity	Remarks
1.	Desktop PC	Pentium IV or above with Keyboard, Mouse, Monitor		Whichever is available
2.	Laptop	Pentium IV or above with Keyboard, LED/LCD TFT Display	1 No.	Whichever is available
3.	Server	Any Latest Server	1 No.	Whichever is available

IX Procedure

- 1. Identify Desktop PC, Laptop and Server available in Laboratory.
- 2. Identify the various parts of Desktop PC, Laptop and Server.
- 3. Observe the standard specification of Desktop PC, Laptop and Server.
- 4. Observe the various parts of Deskip PC, Laptop and Server.
- 5. Compare Desktop PC, Laptop and Server.
- 6. Find the price difference of Desktop PC, Laptop and Server.

X Precautions

- Connect all the parts of Desktop PC correctly.
- Connect power supply carefully.
- 3. Shut down PC properly.

w M
XI Resources used (with major specifications)
DESCRIPTION TO MICHOUSE LAND
keyboard, mouse, monitor
2) Laptop - Pentium IV probove with keyord
LEDITED TET display
2) Laptop-Pentium IV probove with keyond 3) Server-Any Latest Server Computer
XII Actual procedure followed
DEPOTITY DESETON PC. Lanton & Service available
2) Telephily the Japous path of Desiton of
3) Phoening the Standard specification of
Desktop & Ecotop & Engles
4) compare Desitop pc, Laptop & server.
Dennect all the parts of Desktop PC
Correctly.
2) Connect Powder Qual
2) Shirt also 200 OC
3) Shut down PG properly.

XIV Observations:

Table 1: Specification of Desktop PC

Sr. No.	Part	Manufacturer	Specification
1	Processor (CPU)	Intel	Care 13 - 3220
2	Processor Speed	Intel	3.30 GHZ
3	Operating System	Intel	32 bit
4	Memory	Intel	4.08
5	Storage (Hard Disk)		500GIB internal Sturios
6	Graphics Card		Abrilard Van graphic
7	Display/Monitor		Generic EHP Monto
8	Hard Disk Drive		
9	CD/DVD Drive	HP.	hP-DYD-RAM GH82 MA
10	Keyboard	HP	HID Keyboard.
11	Mouse	HP	HID compilent mous
12	Network Adaptor		
13	HDM1 Port (if available)		
14	USB Ports (if available)	71	Generic USB Port
15	Card Reader		0.' -

Table 2: Specification of Laptop

Sr. No.	Part	Manufacturer	Specification
1	Processor (CPU)	Intel	Core 17 - 2640M
2	Processor Speed	Intel	280 GHZ
3	Operating System	Tritel	64 bit
4	Memory	4.	8.00 GB
5	Storage	7	500 GB
6	Graphics Card		ATT mobility
7	Display (LED/LCD)		to inch color loz4x
8	Hard Disk Drive	- /	250 GB
9	CD/DVD Drive		hp-DXD
10	Network Adapter		Integrated Gigativ F
11	HDMI Port (if available)		
12	USB Port (if available)		Generic USB Lub
13	Wireless Network (if available)		802.11 6 3 1
14	Camera (if available)		720 P
15	Card Reader (if available)		

Table 3: Specification of Server

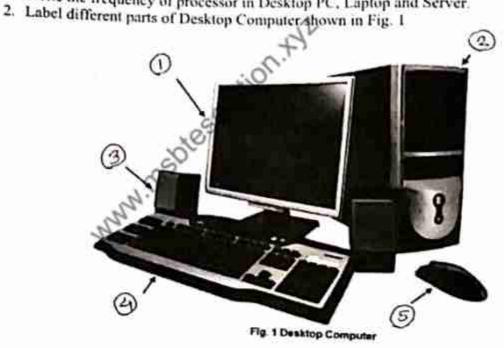
Sr. No.	Part	Manufacturer	Specification
1	Server Type	Intel	Core 15 1500
2	Processor (CPU)	Intel	6.4 GHZ 12M cache
3	Processor Speed	Intel	
4	Nos. of Processors		
5	Memory- RAM		808

6	Cache Memory (L1 and L2)	
7	Hard Disk Drive	ITB
8	Hard Drives Supported (IDE SCSI)	6/
9	Network Adapter	
10	Fire wire Port (if available)	
11	USB Port (if available)	
12	Wireless(if available)	
13	Operating System	
14	CD/DVD Drive	

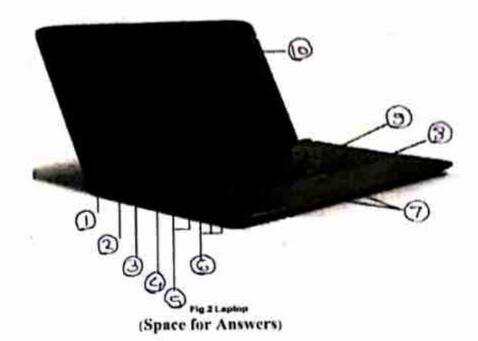
XVI. Practical related Questions

Note: Below given are few sample questions for reference. Teachers must design more such questions to ensure the achievement of identified CO.

Write the frequency of processor in Desktop PC, Laptop and Server.



3. Label different parts of Laptop shown in Fig. 2



Q
DFrequency of processor in Desktop "DFrequency of processor in Laptap is Server is 3-30 only
PC is 3.30 GHz
"Direction of processoroin teptap
is Secretar is 2-30 entite
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Q.2.
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iii) Speaker IV) Keyboard V) Mause
. J.I.)QU.S.E
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DPower
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3) 101 12-4
WHRITE POTE
S) USB Port
7) Buttons I click of mouse
s) Amora rey
5)
10) Display Screen.
84
antend of processor in Lapton
In 659 MHz
"TB""858"(IVIIIZ""""""""""""""""""""""""""""""""

IX Procedure

- 1. Take motherboard from faculty.
- 2. Identify different components on motherboard.
- 3. Understand the function of different components of motherboard.
- 4. Remove the data and power supply cables.
- 5. Remove other components connected to the motherboard such as processor, RAM and add-on cards.
- 6. Clean the components by removing dust and contaminants deposited on contacts using vacuum cleaner.
- After cleaning, fix the components firmly in their respective slots.
- 8. After fixing, the components connect the data and power cables.

х Precautions

- Before removing components, remove power supply cable carefully.
- b. Remove components carefully.
- c. While cleaning hold the cards by its sides only.
- Avoid touching the contact edges.

XI Resources used (with major encelfications)

parent meaning.	see (with major spe	cincationa		
D. March	board - Per	atium I	aanak	rds
William Const.		2,	412	****************
ii) Identify	edure followed of the board of a character of the control of the character of the control of the	rom Ya	culty: Its on r Jifferen	natherboard
iv) remove	the data &	Power	Supply	Cables
DBetore	Lewis Devel	npoment	s wen	ove power

- ii) While sleaning hold the Cords by its sides only iy) Avoid touching the contact edges

XIV Observations:

- (a) Motherboard supports RAM banks.
- (b) There are Numbers of SATA/IDE connectors on motherboard.
- (c) The motherboard supports ... P.G.A.. Type of CPU socket.
- (d) BOO pin ATX power supply connector supplies power to the motherboard.
- (e) List different components of motherboard and their use in Table 1.

Table 1: Components of Motherboard

Sr. No.	Component	Use
1.	Processor Socket	To the central piece of the motherboard it holds the processor.
2.	Power Connector	operate without power. It provide.
3.	Memory Slots	It is used to use of modules.
4.	Video card Slot	having reply intergrated one.
5.	SATA Port	the storage device
6.	BIOS chips	It is used to the basic code
7.		Protetion to Components of metherbook
10250	Parallel Port	ed old Printers that is wire.
10.0	cmos Mattery	It is used to store the data or
10	USB Connector	THE GOOD BLOS SCHING.

(1) Note down the motherboard problems and solutions in Table-2

Table 2: Motherboard common problems and its solution

Sr. No.	Problem	Solution		
1.	PC overheating	Don't use pe for		
2.	Pc beeps	completely & clean it		
3	PC tens not working	The app will get you grang.		
4.	Pr is at powering on	the iPCS power cash		

XV Practical related Questions

Note: Below given are few sample questions for reference. Teachers must design more such questions so as to ensure the achievement of identified CO.

- a. Give details of chipset used in your computer motherboard.
- b. How many USB ports, serial and parallel ports are available in the computer used.
- c. Give the details of buses available on the motherboard used.
- d. Label components of motherboard given in Fig. 1

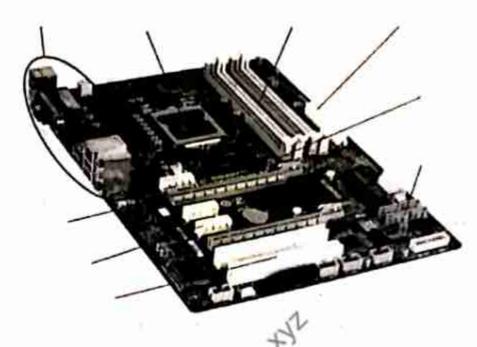


Fig.1. Motherboard

Q. 1	
>	Their in a computer system a chipest
	The state of the s
	in a interpreted circuit System It
	-nipestalis designed to done with a
	specific family of microprocessor.
03.2	·
1	there are 6 at least 6 USB Parts
	Manally their is at least one senal
	port & usually there 19 1 5 porallel
	ports.

11	***************************************

100	***************************************

**	***************************************

VIII Resources required

S. No.	Instrument /Object	Specification	Quantity	Remarks
1.	Desktop PC	Pentium IV or above with Keyboard, Mouse, Monitor	The second second	Whichever is available Group of two or three students

IX Procedure

Steps to enter the BIOS Setup Program Utility

Power ON the computer.

2. After power On, black screen appear on you monitor, wait until the message appears briefly at the bottom of the screen such as "Press F2 to enter SETUP, F12 for Network Boot, ESC for Boot Menu"

3. Now press F2 key to enter the setup program. (This key may vary from one machine to other machine depending on the manufacture of the BIOS Setup program)

Observe different BIOS set ups.

X Precautions

Change the setting carefully.

2. Save changes if required under the guidance of teacher.

Resources used (with major specifications) XI

...... Desktop PC - Pentium IV or above keyboard, Mouse, Monitor, 02

XII Actual procedure followed DROCK on the computer ii) After Power on block Setteen appeare on you monitor, wait until the message appears backly at the bottom of the Forcen Such as "Press F2 to enter SETUP F12 For network book, Esc for boot menu!

XIII Precautions followed

D.Change the Setting Correfully in Save shanges it required under the myldance of teacher.

XIV Observations:

- The key/key combination used to enter the BIOS setup is ... F.10.
- The computer system has ...\S...MB 1.2 cache memory.
- 4. First Boot Priority Device is S.P. J. DXD Drive
- 5. Various BIOS settings are stored in CMOS. Chip.

XV Practical related Questions

Note: Below given are few sample questions for reference. Teachers must design more such questions so as to ensure the achievement of identified CO.

- 1. List cache type, size and memory size of the system from Main setup.
- State any two setting under CPU configuration.
- 3. Write down boot devices priority in boot sequence menu as follows:

 - 1st Boot Device: 2nd Boot Device:
 - 3rd Boot Device:

Q.	***************************************
	> The type of cache is La cache it's size is size to sand cache is La cache it's size standard of sand
	STOYAGE IS GAISE to 16 MB
0 7	**************************************
	> ===
	Two Setting under crysconfiguration as
	TRILEGE A.T. CONTRACTOR OF THE PROPERTY AND ASSESSED AND ASSESSED ASSESSEDA
	DBIDS SCIONS
	M. CMOS Setting
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rx. S	
-	2rd Boot Device CP DYD Drive
	Boot Device Hord Onve
	Boot Device : Esternal Hard Diete

04	***************************************
5.4	***************************************
200	***************************************
149	***************************************
**	***************************************

100	***************************************
***	***************************************

8. Give the new volume a letter name or path. Select from the menu, a letter name for your new partition and click on the "Next" button.

Note: The letter name or path is used by Windows to identify and navigate to your new volume.

9. Settings for the new volume.

Click on the Format this volume with the following settings:

- a. For File System, select NTFS
- b. For Allocation unit size, select Default
- e. For Volume Label, type the name you wish to give your new drive.
- d. Click on the Perform a quick format
- e. Then click on the Next button
- 10. Create the new volume. Look over your settings and click on the Finish button.
- Format the new volume.
 - a. You will get a popup asking you to partition your new drive. Click on the Format disk button.
 - b. A new window will popup. Keep the settings and click on the Start button.
 - A warning will popup. Click on the OK button.
- 12. Check new volume. If everything was done correctly, you should now see your new drive in the Disk Management window.

For Formatting:

- Boot your PC using bootable media.
- 2. Follow the instructions that appear on the screen.
- 3. On the "Install " page, enter your language and other preferences, and then click Next.
- 4. Follow the instructions and proceed till the partitions are displayed or the system is waiting for partitions.
- Click the partition that you want to format and click Format.
 - a. If you have more than one partition on this hard drive and want to get rid of them to make one big drive again, then select a partition and click on the Delete option for each partition. Once you have deleted all of the partitions, select the Unaffocated Space partition and click Format.
 - b. Pick the formatting option (i.e the file System) that you want.
 - When you've finished formatting, click Next.

XI Precautions

Selection of any drive for formatting/partitioning must be done carefully so as not to delete any useful data.

XII F	sources used (with major specifications)
17	mouter System Any desktop P.C. with handdek
(1)	cotable CP-DXD / Any bootable media.
YIII A	fuel precedure followed
13.00	en the computer management tool open art meny Type! Computer management the Start menu &
	Jest the Disk management tepl.

55 V	
	Precautions followed
155	selection of any drive for formatting
	POTITIONION VIIII L. I.
	50 as not to delete any useful
xV	Observations:
AV	1. Every drive must be format before use.
	2. Martin size of each a size
	2. Mention size of each partition created.
	3. State the O/P of shrinking the partition.
	4. USB Drove media can be used to boot the PC.
	5. State time required to format a drive.
	6. List volume Labels assigned with NTFS.
XVI	Practical Assignment Summary :
	Note: Student has to specify - storage media used for formatting, file systems used,
	number of partitions created, size of created partitions, usable size after formatting.
	1
VVII	Practical related Questions
	Note: Below given are few sample questions for reference. Teachers must design
	more such questions to ensure the achievement of identified CO.
	1. List file systems displayed while formatting along with its full form.
	2. List Linux file system used while formatting.
	3. How does Linux identify partitions?
	4. Differentiate between the concept of Primary and secondary partitions.
	5. List Storage media used for formatting and partitioning.
	6. List Partitioning Methods Used.
	(Space for answers)
Q.1.	
->1	INTES - (New technology Ale System) MIES 15.
	the microsoft property file System
7	The trade with the windows AT Family
2	State (Cla allocation table) FAT is the
	Die Sustam designed for smaller
	Simple Circle Alder Structure
9	DATES - (New technology file System) ATES IS. the microsoft property file System started with the windows AT Family. U.F.AT - (File allocation table) FAT is the simplet file System designed for smaller disks & Simple filder Structure.
:	
Q.2.	Types of Linux file System -
>	THE THE THE
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	is ext. 7
- 5	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
a	V) Relsen Ps
6	NDX6#
65	VID BUPS

In a terminal, run the Command of & leak at the cutput the Column needed mounted on" will a "1" against the position partition that holds your root the file.

XVIII References / Suggestions for further Reading https://en.wikipedia.org

XIX Assessment Scheme

Performance indicators	Weightage
Process related (15 Marks)	60%
Handling of the devices	20%
2 Attentiveness	10%
3 Performance	30%
Product related (10 Marks)	40%
Practical related questions	20%
5 Completion and submission of practical in time	10° a
6 Observations	10%
Total (25 Marks)	100%

List of student Team Members

2 Ican tire Members 150189

Marks Obtained			Dated signature of Teacher
Process Related(15)	Product Related(10)	Total (25)	childre-
			529

IX Resources required

	Instrument /Object	Specification	Quantity	
1.	Computer System	Any desktop PC with attached HardDisk.	10 No.	Whichever is available
2.	Bootable CD/Any bootable media	-		Linux/Windows. Multiple Copies of original CDs can be used.

X Procedure:

1. Boot your computer from OS media.

2. When the computer starts, press a key if you are asked if you would like to boot

from the disc by pressing any key.

 You should have Windows product key, a 25-character alphanumeric code unique to your copy of Windows. After you choose to start from the disc, Windows Setup will begin loading.

Choose your Windows Setup options and click the Install Now button.

Accept the License Terms-Accept the Windows 7 License Terms: Read through the
agreement, check the laccept the license terms checkbox under the agreement text
and then click Next to confirm that you agree with the terms.

6. Select the Custom installation. Choose the Type of Windows Installation to

Complete

For clean install crase all the drives recreate drives as required again.

8. Decide on which hard drive and partition you want to install Windows on.

Start guided Windows Installations on your preferred hard drive .

 Choose Language and Other Preferences: Choose the Language to install, Time and currency format, and Koyboard or input method that you'd like to use in your new Windows installation.

11. The Repair your computer link is used to start a Windows startup repair. Perform

another recovery or repair task from System Recovery Option.

 Wait for the installation process to complete. Once it is finished, you will be prompted to restart the computer and Windows will load.

XI Precautions

Selection of any drive for installation must be done carefully so as not to delete any useful data or partition.

XII Resources used (with major specifications)

(1) Fixed Hard Disk.

(2) Windows Operating System Licensed Media.

XII	Actual procedure followed
	1) Boot your computer from as media.
	is when the computer starts , press a
	key if you are asked if you would like
	1) You should have kindows product key in
	HOTENOTULE CHANCING MARKET CORRE
	your capy of windows After you choose to start from the disc, windows Setup will
	Start from the disc, windows setup will
	being loading.

'n	install now button.
XIV	Precautions followed Selection of any drive for installation must be done carefully so as not to delete any useful data or partition.
	Observations: 1. Every drive must be format before use. 2. A product key is a not used to activate Windows. 3. Indian Language supported in Windows Installation: Erriven (US) (Specify for your Windows Version) 4. Time Zone Chosen S:30 CGMT+) 5. Keyboard Chosen P 6. File Format chosen
χVI	Practical Assignment Summary: Note: Student has to specify - Windows operating system family, method used for installation, file systems used, size of created partitions. Hindry's peroting to System family. Size of CP. Used to State of C
XVI	Note: Below given are few suggestive sample questions for reference. Teachers must design more such questions to ensure the achievement of identified CO. 1. Is any partition automatically created during installations? If yes, mention size. 2. Name Formatting options displayed and chosen. 3. State information about number and size of partitions created. Mention File systems. 4. Name Windows Operating system with its specifications.
	(Space for answers)
31)	1) 450 MB Recovery 11) 100 MB Eft System [Hidden from eligic Management] 11) 16 MB mak 11) 17 MB mak 11) 16 MB mak 11) 16 MB mak 11) 16 MB mak 11) 16 MB mak 11) 17 MB mak 11) 17 MB mak 11) 18 MB mak 12 MB mak 12 MB mak 13 MB mak 14 MB mak 15 MB mak 16 MB mak 16 MB mak 16 MB mak 17
Q.2]	Formatting options on the Smout pod perprefiles tab consist at a series of links that opens a allalo- or changes the Smoot pack to display additional

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level of Specifications Co.	**************************************
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References / Suggestions for further Reading a. https://en.wikipedia.org b. http://www.wikihow.com/Install-Window XVIII

Assessment Scheme XIX

_	Performance Indicators	Weightage
Pr	ocess related (15 Marks)	60%
1_	Handling of the devices	20%
2	Attentiveness	10%
3	Performance	30%
Pr	oduct related (10 Marks)	40%
4	Practical related questions	20%
5	Completion and submission of practical in time	10%
6	Observations	10%
	Total (25 Marks)	100%

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2.	Symph
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4.	Shinath

М	arks Obtained	Dated signature of Teacher	
Process Related(15)	Product Related(10)	Total (25)	
			Α

IX Resources required

S. No.	Instrument /Object	Specification	Quantity	Remarks
	Computer System	Any desktop PC with attached HardDisk.		Whichever is available
2.	Bootable CD/Any bootable media	-	1 No.	Linux/Windows. Multiple Copies of original CDs can be used.

х Procedure:

Installation of Linux OS

- 1. Boot from the OS media.
- 2. Choose what to do with your existing operating system
- 3. Set partition size
- 4. Once you are satisfied with your settings, click Install Now.
- 5. Choose your location Set and keyboard layout
- 6. Enter your login information. Enter your name, the name of the computer (which will be displayed on the network), choose a username, and come up with a password.
- 7. You can choose to have Ubuntu automatically log you in, or require your username and password when it starts
- 8. Wait for the installation process to complete. Once it is finished, you will be prompted to restart the computer and Ubuntu will load.

ΧI	Precautions Selection of any drive for installation must be done carefully so as not to delete any useful data.
XII	Resources used (with major specifications)
	4.
v	

XIII	Actual procedure followed
١) Boot from the Os media -
1	Depending the sasten south your existing
(1) Set portition Sistem
1	Set portition System Some you are satisfied with your
	Strings & Cick Install min.
XIV	Precautions followed
	Selection of any stocke for installation must be done carefully so as not to delete any useful data.
•	***************************************

Heat and dust: Make sure that the CPU fans are in proper condition. Check whether the processor is getting sufficient cooling or not. Users can make use of SMART tools that notify them about the condition of the hard disk and risks that the hard disk may face in future.

Checking Hard Drive through Windows GUI

- a. Open File Explorer
- b. Click Properties from This PC / Computer
- c. Choose the Tools tab
- d. Click the Check button followed by Scan drive.
- e. Two options are available before starting an Error Checking scan in:
- Automatically fix file system errors: automatically corrects file system related errors that the scan detects.
- -Scan for and attempt recovery of bad sectors will perform a search for areas of the hard drive that may be damaged or unusable. If found, this tool will mark those areas as "bad" and prevent your computer from using them in the future. This is a very useful feature but could extend the scan time as much as a few hours.
- -Advanced: The first option is equivalent to executing chkdsk/f and the second to executing chkdsk/sean/r. Checking both is the same as executing chkdsk/r.
- 1. Click the Start button.
- 2. Wait while Error Checking scans the selected hard drive for errors and, depending on options you selected and/or what errors are found, fixes any errors found. Note: If you get a Windows can't check the disk while it's in use message, click the Schedule disk check button, close any other open windows, and then restart your computer. You'll notice that Windows takes much longer to start up and you'll see text on the screen as the Error Checking (chkdsk) process completes.
- 3. Follow whatever advice is given after the scan. If errors were found, you may be asked to restart your computer. If no errors were found, you can close any open windows and continue using your computer normally. Advanced: If you're interested, a detailed log of the Error Checking scan, and what was corrected if anything was, can be found in the list of Application events in Event Viewer.

Command Line Check Disk Through chkdsk command

- To use the command line check disk version, open a Command Prompt using the 'Run As Administrator' option. Type command chkdsk at the prompt. This will run chkdsk in a Read-Only mode and display the status of the current drive.
- Typing chkdsk /? and hitting Enter will give you its parameters or switches.

XI Precautions

- Do not defragment a media card or flash drive. Optical drives cannot be defragmented.
- Do not run the defragmentation utilities over and over, trying to get a perfectly defragmented hard drive.

XII	Resources	used	(with	major	specifications)
-----	-----------	------	-------	-------	-----------------

11	Computer	System		
	MOD			************
		*****************	*********************	

- XIII Actual procedure followed Ti) Uninstall & the sufficient, the Settlement Ti) Uninstall & the sufficient of the Settlement of the parties of Sent of the suffer of the
- Con not be defragment a media come or fresh dive

XV Observations:

- a. State the O/P of disk cleanup utility.
- List viruses and malware detected on your PC.
- b. State Percent Fragmented value by the disk in the Disk Defragmenter window.
- On detecting the hard disk state the entry shown in BIOS.
- d. State the output of chkdsk.

XVI Practical Summary:

Note: Student has to specify steps followed for troubleshooting hard disk, note down problems faced and solution practiced Students must write syntax of communds used along with their explanations.

XVII Practical related Questions

Note: Below given are few sample questions for reference. Faculty must design more such questions so do to ensure the achievement of identified CO.

- a. State the command used for checking disk errors.
- b State the SALAR Library used.
- e. Write the disk space used before and after disk cleanup.
- d. Write name of the antivirus software.
- e. Name the malware and or virus detected by your antivirus.
- f. Write format of chkelsk command.

Q.1]	
5	Snort for anecle diese, the dee is a command
	CLE United that is used on Dos & microsoft
	windows based Systems to checks the Ale
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	System & exercise of the systems hand while
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	is Met protector antivirus.
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	IN MCAPEC
	NS A-7140

WINK MENY IN WINDOWS letter of the USB or cuternal drive

References / Suggestions for further Reading https://en.wikipedia.org XVIII

XIX Assessment Scheme

	Performance Indicators (2)	Weightage
Pr	ocess related (15 Marks)	60%
1	Handling of the devices	20%
2	Attentiveness	10%
3	Performance	30%
Pr	oduct related (10 Marks)	40%
4	Practical related questions	20%
5	Completion and submission of practical in time	10%
6	Observations	10%
	Total (25 Marks)	(100%)

List of student Team Members

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Marks Obtained			Dated signature of Teacher
Process Related(15)	Product Related(10)	Total (25)	

- 4. In the "Printers Properties" window, click the "Print Test Page" button
- 5. If the printer can print a test page, your printer is installed and setup properly

Sharing the printer:

After the printer is installed, you can share a printer in network if your PC is connected in the network.

- Click "Start", Settings, and open "Control Panel".
- 2. Double-click the "Printers or Printers and Fax icon"
- 3. Right click on the Printer you want to share and click "Sharing" If you do not see your printer, your printer is not installed.
- 4. In the "Sharing" window, Check the box that says "Share this printer",
- 5. Then, you can edit the share name of the printer, in case you don't want to use the default name provided by Windows.
- 6. When door, click OK
- The punies is now shared with the other computers on your network, regardless of the operating systems they are using

Troubleshoot the printer:

- 1. If you do not have any indicator light, make sure the printer is connected to a working power outlet by verifying each end of the power cable
- 2. If the indicator is blinking or is orange, often this is an indication of a printer error, like a paper jam or an issue will the ink or toner cartridge. Remove the panel and carefully pull out the jammed paper.
- 3. No paper or paper jam -without paper, your printer will not be able to print Make sure you have paper looted into the printer paper cartridge or tray.

X Precautions

- 1. Change the printer settling carefully.
- Switch OFF before Connecting data and power cable.

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XII Ac	tual procedure followed
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XIII Pro	ecautions followed
	and the income setting the Sulty
20 422	witch " by Le line correction down &
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VIV Ob	servations.

- 1. The type of printer used for installation is (Dot Matrix/Inkjet/Laser)

- 4. Various buttons available on printer control panel are ... 12.12.2.1. 12.20.

Practical related Questions

XV

Note: Below given are few sample questions for reference. Teachers must design more such questions so as to ensure the achievement of identified CO.

- List different printer drivers available in your PC.
- 2 State memory (RAM) available in printer.
- 3. Write features of printer used for installation.

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	2) plug the printer intergroup Computer
	3) Turn on the printer
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	CONTROL :

Procedure 1X

Connect main AC supply to SMPS and switch ON.

2. Check voltage levels in all connectors of SMPS using digital multi-meter

3. Note all voltage levels in Observation table given below.

4. If voltage levels of all connector are correct, then switch OFF the power supply

Precautions

XI

Make connections properly

2. Use digital multi-meter correctly

3. Connect power supply carefully

Resources used (with major specifications)

DEMPS 2) Digital Multimeter: - 34 Dart Handheld

3) Seres driver

XII

Actual procedure followed

Connect crain Ac supply to smes & South of

Connect Union Ac supply to smes & South of

Connectors of sme

3) Mate an Janeige levels in destruction

XIII Precautions followed

1) make Connections Die O Og/4

2) Use -11) ital multimetes correctly.

3) Connect Borer

XIV Observations:

Write down the different voltage level observed in Table given below

Pin No	Wire Color	Output Voltage
1	Orange	+3.35
2	Orange	+3.3V
3	Black	Gucound
4	Red	454
5	Black	Chunound
6	Red	Gucound
7	Black	+5198
8	Gray	+15~
9	Purple	+15 V
10	Yellow	4121
11	Yellow	+33V
12	Orange	43.30
13	Orange	4.1.30
14	Blue	- 12-1
15	Black	Chueoune

16	Green	Power on
17	Black	Gureurd
18	Black	Guround
19	Black	Gueourd
20	White	-54
21	Red	イラン
22	Red	+57
23	Red	+51
24	Black	Guround

XV Practical related Questions

Note: Below given are few sample questions for reference. Teachers must design more such questions so as to ensure the achievement of identified CO.

- Write wattage of given SMPS.
- State how many power outlets (Connectors) on SMPS.

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Trese one 10 Bener OUTTETS Connection

- DIMM. There are plastic tabs on the end of the DIMM sockets. Press the tabs down and away from the socket. The DIMM will lift slightly. Now grab it by the edges and place it safely. Do not let the chips get dust at all. 6. Remove the power supply:
- The power supply is attached into tower cabinet at the top back end of the tower.
 - Make sure the power connector is detached from the switchboard.
 - Start removing the power connector connected to motherboard including CPU fan power connector, cabinet fan, the front panel of cabinet power buttons and all the remaining drives if not detached yet.
 - Now remove the screws of SMPS from the back of the cabinet and the SMPS can be detached from the tower cabinet.
- 7. Remove the motherboard:
 - Before removing all the connectors from the motherboard, make sure you memorize the connectors for assembling the computer if required, as that may require connecting the connectors at its place.
 - Remove the screws from the back of the motherboard and you will be able to detach it from the cabinet. Now remove the CPU fan from the motherboard.
 - . The heat sink will be visible now which can be removed by the pulling the tab upward.
 - Finally, the processor is visible now, which can be removed by the plastic tab which can be pulled back one stretching it side way.

Precautions X

- 1. Build computer on a hard surface, away from moisture.
- 2. Wear shoes and the short-sleeved cotton wear
- Use head screw driver.
- 4. Keep the components away from moisture.
- 5. Avoid using pressure while installing
- Beware of electrostatic discharge (ESD)

XI,	Resources used (with major specifications) PESCHOP PC- ATTIME TV or above with keyboard
	Some of onder set.
XII	Actual procedure followed
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200	Precautions followed Build Computer on a hard Surface, away from moisture (Note avois & the start - shaued common wear (Note the samparents away from maisture) (Note the samparents away from maisture) (Note the samparents away from maisture) (Note to surpose the samparents away from maisture) (Note to surpose the samparents away from maisture) (Note to surpose the samparents away from maisture)

	puter Peripherals and Hardware Maintenance (22013)

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XIV	Observations:
	1. Memory module i.e. SIMM used is/are. S. O.P. 5. (DDR1/DDR2/DDR3/DDR4)
	2. Size of the Hant Disk used is 1500 GWTB.
	Total numbers power connectors available in SMPS are
	5. Wattage of SMPS used is watta.
XV	
.,,	Practical related Questions
	Note: Below given are few sample questions for reference. Teachers must design more such questions to ensure the achievement of identified CO. 1. State which processor is mounted on motherboard processor socket. 2. State the model of motherboard used. 3. State the type of Hard disk CD-ROM DVD drive used.
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	(Space for answers)
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