M4.3-R4 INTRODUCTION TO ICT RESOURCES

NOTE:

IMPORTANT INSTRUCTIONS:

1. Question Paper in English and Hindi and Candidate can choose any one language.

2. **In case of discrepancies in language, English version will be treated as final.**

3. There are **TWO PARTS** in this Module/Paper. **PART ONE** contains **FOUR** questions and **PART TWO** contains **FIVE** questions.

4. **PART ONE** is to be answered in the **OMR ANSWER SHEET** only, supplied with the question paper, as per the instructions contained therein. **PART ONE** is **NOT** to be answered in the answer book.

5. Maximum time allotted for **PART ONE** is **ONE HOUR**. Answer book for **PART TWO** will be supplied at the table when the answer sheet for **PART ONE** is returned. However, candidates, who complete **PART ONE** earlier than one hour, can collect the answer book for **PART TWO** immediately after handing over the answer sheet for **PART ONE**.

TOTAL TIME: 3 HOURS   **TOTAL MARKS: 100**
(PART ONE – 40; PART TWO – 60)

PART ONE
(Answer all the questions)

1. **Each question below gives a multiple choice of answers. Choose the most appropriate one and enter in the "OMR" answer sheet supplied with the question paper, following instructions therein.** **(1x10)**

1.1 _____ layer of OSI model arranges information from the above layers into frames.
A) Network
B) Transport
C) Data link Layer
D) Application

1.2 _____ is a collection of related pieces of information which is stored in HDD for easy reference.
A) Data
B) File
C) Information
D) All of the above

1.3 _____ memory is faster than RAM.
A) EPROM
B) Pen Drive
C) HDD
D) Cache

1.4 _____ belongs to class C address.
A) 200.200.1.1
B) 10.10.1.1
C) 224.1.1.1
D) 127.0.0.1

1.5 _____ key is used to take snapshot of desktop screen.
A) Alt+ Print Screen
B) Enter+ Print Screen
C) F1+ Print Screen
D) Print Screen

1.6   The Shortcut of Redo is
A)   Ctrl + r
B)   Ctrl + e
C)   Ctrl + y
D)   Ctrl + o

1.7   ISP Stands for _____.
A)   Internet Service Provider
B)   Inspection Service Provider
C)   Internet Section Provider
D)   None of the above

1.8   _____ takes decision based on MAC address.
A)   Hub
B)   Switch
C)   Router
D)   Gateway

1.9   No of sub network possible with 10.0.0.0/10 address.
A)   Zero
B)   Four
C)   Eight
D)   Sixteen

1.10   One of the important features of Gateway.
A)   Filter packet based on Switch Address
B)   Connects two different LAN
C)   Forwards packet based on URL Address
D)   None of the above

2.   Each statement below is either TRUE or FALSE. Choose the most appropriate one and ENTER in the "OMR" answer sheet supplied with the question paper, following instructions therein.   (1x10)

2.1   BOOT.INI is a file which holds key information about your system including device drivers.

2.2   BIOS is a one type of Hardware.

2.3   WAN is used to connect computers placed in different parts within a building.

2.4   Unix is a multiuser operating system.

2.5   Installation of a computer program is the act of making the program ready for execution.

2.6   NTLDR is a boot strap loader of Unix Operating System.

2.7   Printer which can be installed in windows operating system cannot be installed in Unix Operating System.

2.8   Ring topology is a collision free topology.

2.9   Wireless Network uses radio waves to transmit signals.

2.10   Deleted user can be restored from Recycle Bin.

3. **Match words and phrases in column X with the closest related meaning/ word(s)/phrase(s) in column Y. Enter your selection in the "OMR" answer sheet supplied with the question paper, following instructions therein.** (1x10)

	X		Y
3.1	Computer Virus	A.	Packet
3.2	Identification of Data at network layer	B.	Ethernet
3.3	It compresses a file by taking out redundant bit from a file	C.	Spoils HDD
3.4	Network in which Probability of collision is high	D.	Compression
3.5	It is a storage device	E.	Datagram
3.6	Distance is limited to 1 km	F.	Magnetic Drum
3.7	It's a non-impact printer	G.	MAN
3.8	It can browse files through network	H.	Backup Your Data
3.9	Nero	I.	Wireless Network
3.10	WiFi	J.	Laser Printer
		K.	LAN
		L.	File Sharing Protocol
		M.	Software to Write CD

4. **Each statement below has a blank space to fit one of the word(s) or phrase(s) in the list below. Enter your choice in the "OMR" answer sheet supplied with the question paper, following instructions therein.** (1x10)

A.	Operating System	B.	Scan Disk	C.	Circuit
D.	Path	E.	UDP	F.	High Level
G.	Dynamic	H.	High Level	I.	Packet
J.	Firewall	K.	Recycle Bin	L.	HDD
M.	Disk Cleanup				

4.1 The DLL extension stands for _____ link library.

4.2 _____ is a connection less protocol.

4.3 In _____ switching, dedicated path is established before data are transferred.

4.4 _____ is used for filtering network traffic.

4.5 Deleted files can be retrieved from _____.

4.6 _____ is a utility that removes unnecessary files from a slow running hard drive.

4.7 _____ is a utility program which searches for unmapped file blocks of HDD.

4.8 _____ identifies a file's location in the HDD.

4.9 _____ acts as an interface between user and hardware.

4.10 _____ formatting reformats file system of HDD.

PART TWO
(Answer any **FOUR** questions**)**

5.
a)   How deleted files can be recovered in Windows Operating System?
b)   Name various components used in LAN. Briefly explain their working.
c)   What are the two types of transmission media available to connect computers in either LAN, MAN or WAN?

(5+5+5)

6.
a)   Write down the steps of Windows Booting of Modern computers.
b)   What are the steps to take backup of data and back up as image in windows operating system?

(8+7)

7.
a)   Draw and Explain functionalities of layers of TCP/IP protocol Stack.
b)   What is Defragmentation of Hard Disks? What are the advantages of it?

(8+7)

8.
a)   BIOS is a de facto standard defining/configuring computers for startup. What are the parameters you can configure using BIOS.
b)   Draw and explain various networking topology to make LAN? Write down pros and cons of each topology.

(8+7)

9.   Explain working of following:
a)   Compressing files using WinZip
b)   Antivirus software
c)   Router

(5+5+5)