M4.3-R4 INTRODUCTION TO ICT RESOURCES

NOTE:

IMPORTANT INSTRUCTIONS:

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

2.   **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.

3.   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   _____ is a device which is used to amplify only signal from one end to other end.
A)   Repeater
B)   Bridge
C)   Switch
D)   Router

1.2   When computer is powered ON, _____ is started first.
A)   POST
B)   Self-Healing
C)   Self-Cleaning
D)   Self-Scanning

1.3   _____ is a bootstrap program in Linux.
A)   LiBoot
B)   GRUB
C)   LIGR
D)   NTLDR

1.4   Number of usable Host with address 192.168.1.0/24
A)   10
B)   100
C)   254
D)   512

1.5   Wi-Fi uses _____ method to access medium.
A)   CSMA/CD
B)   CSMA/CA
C)   CSMA/AC
D)   CSMA/DC

1.6   _____ Device is required for the Internet connection.
A)   Joystick
B)   CD Drive
C)   Mouse
D)   NIC Card

1.7   _____ topology is highly expensive.
A)   Star
B)   Tree
C)   Fully Mesh
D)   Common Bus

1.8   _____ Memory is used to store BIOS on Motherboard.
A)   ROM
B)   RAM
C)   CACHE
D)   None of the Above

1.9   _____ is a unit to count the speed of a printer.
A)   CPM
B)   PPM
C)   BIT
D)   None of the above

1.10   _____ is known as loopback address
A)   200.200.1.1
B)   10.10.2.1
C)   127.0.0.1
D)   256.5.6.8

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   Other name of Logical Address is MAC address.

2.2   Nero is CD/DVD Burning Software.

2.3   Twisted pair cable reduces cross talk effect.

2.4   TROJAN is type of Anti-Virus Software.

2.5   NTFS file system can be used in Windows 7 Operating System.

2.6   Defragmentation of Hard Disk will remove all partition of HDD.

2.7   Wireless Network uses radio waves to transmit signals.

2.8   To connect computer and switch, straight through cable is used.

2.9   Router takes decision based on MAC Address.

2.10   Bus topology requires centralized controller.

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	Boot partition	**A.**	ISO
3.2	Reduction of File Size	**B.**	Cost Effective Topology
3.3	Standard Creation Committee for Communication	**C.**	OSI
3.4	Protocol for file transfer	**D.**	ISP
3.5	Ring Topology	**E.**	Twisted Pair
3.6	Example of WAN	**F.**	Deleted files kept here
3.7	Provides Internet	**G.**	MBR
3.8	BUS Topology	**H.**	Winzip
3.9	Common Networking Cable	**I.**	Printing
3.10	Recycle Bin	**J.**	FTP
		K.	Collision Free Topology
		L.	Internet
		M.	TRI

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.	Bridge	**B.**	TCP	**C.**	Circuit
D.	Back Door	**E.**	UDP	**F.**	SMTP
G.	Twisted Pair	**H.**	System BUS	**I.**	TCP/IP
J.	Cache	**K.**	Hard Disk	**L.**	Co-axial
M.	Network Manager				

4.1 _____ is a storage Device.

4.2 _____ is a connection less protocol.

4.3 Through _____, the components of the computer can communicate with each other.

4.4 Default port number of _____ service is 25.

4.5 Device Operating at Data link layer is known as _____.

4.6 A _____ cable is made of two plastic insulated copper wires twisted together to form a single media.

4.7 _____ Memory is having same speed as CPU.

4.8 In Windows NT system, _____ manage sharing of work with other computer.

4.9 _____ is a type of Virus.

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

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

5.
a) A Wireless Router is a device that performs the functions of a router but also includes the functions of a wireless access point. What are the functionalities and limitations of Wireless Router?
b) Write down the functionalities of each layer of TCP/IP protocol suite.

(7+8)

6.
a) What is use of Straight Through and Cross over Cable in computer network? How to make Straight Through and Cross over Cable of Ethernet?
b) Write Step-by-step procedure to create data CD using Nero software?

(7+8)

7.
a) What are the steps to create user and group in Windows NT System?
b) How to take backup and restore files and folders in Windows Operating System?
c) Write down command to create and format drive in HDD with respect to Linux Operating System?

(5+5+5)

8.
a) How lost files can be recovered in Windows Operating System?
b) What is Defragmentation of Hard Disks? What are the advantages of it?
c) How can user configure IP address in to Desktop Computer?

(5+5+5)

9.   Explain briefly **any three** from the following:
a) MAC Address
b) Switches
c) Scan Disk
d) Differentiate LAN, WAN and MAN

(3x5)