B1.2-R4: INTERNET TECHNOLOGY AND WEB DESIGN

NOTE:

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 **TEAR-OFF ANSWER SHEET** only, attached to 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 "tear-off" answer sheet attached to the question paper, following instructions therein.** **(1x10)**

1.1   The transport layer protocols is
A)   UDP
B)   PPX
C)   TCP
D)   ALP

1.2   Which of the following protocol is used by electronic mail?
A)   telnet
B)   ftp
C)   smtp
D)   rdp

1.3   Which of the following is suitable for networking in a building?
A)   WAN
B)   LAN
C)   MAN
D)   BAN

1.4   Which of the following is not a search engine?
A)   Google
B)   Yahoo
C)   Twitter
D)   AltaVista

1.5   A Cookie is
A)   An advertisement displayed on a web page
B)   A program that records web site visits
C)   Information stored by web server on client system
D)   A technology to store password on client system

1.6   Extension of VRML files is
A)   .vml
B)   .vrm
C)   .wrm
D)   .wrl

1.7   An applet is a
A)   picture displayed on the web page
B)   program that can be embedded in another application
C)   tag in HTML program
D)   compiler

1.8   SSL is a
A)   Scripting language
B)   Browser
C)   Secure connection
D)   Authoring tool

1.9   The right to copy can be granted by
A)   Court
B)   Government
C)   Company
D)   Owner

1.10   What is the default scripting language in ASP?
A)   JavaScript
B)   Perl
C)   EcmaScript
D)   VBScript

2. **Each statement below is either TRUE or FALSE. Choose the most appropriate one and ENTER in the "tear-off" sheet attached to the question paper, following instructions therein.** (1x10)

2.1 ARPANET was the world's first operational packet switched network.
2.2 lynx is a graphical web browser.
2.3 EDI can be transmitted by FTP protocol only
2.4 Firewall is used to block sites on a LAN.
2.5 Video conferencing can only allow one user to interact with other on the internet.
2.6 HTML is a web authoring tool.
2.7 Each station in the ring topology acts as a repeater.
2.8 'disconnect' is a command used to close FTP session.
2.9 Every computer on the internet has a domain name.
2.10 Graphics created by flash can be scaled to any size without losing clarity/quality.

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 "tear-off" answer sheet attached to the question paper, following instructions therein.** (1x10)

	X		Y
	X		**Y**
3.1	An application that is downloaded from a webpage and executed by a browser software	**A.**	Lynx
3.2	Also known as raster graphics	**B.**	Cache
3.3	Combining a search term with operators AND, OR, NOT etc.	**C.**	Copyright
3.4	Software that will load and display a web page	**D.**	MHEG
3.5	Browser stores copies of recently visited files	**E.**	Download
3.6	The legal protection against copying	**F.**	Applet
3.7	Transfer of file from another system to your system through a network connection	**G.**	Boolean Search
3.8	A graphical format widely used in www pages	**H.**	Telnet
3.9	A text only web browser	**I.**	Baudrate
3.10	A security protocol generally used for secured transactions on the internet	**J.**	JPEG
		K.	SSL
		L.	Browser
		M.	Bitmap

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 "tear-off" answer sheet attached to the question paper, following instructions therein.** (1x10)

A.	Hyperlink	B.	Baudrate	C.	FTP
D.	Applet	E.	HTML	F.	Bus
G.	Byte	H.	Chat	I.	DNS
J.	Star	K.	Bandwidth	L.	Cookie
M.	Archive				

4.1   _____ is a storage repository for software, data or other materials to be saved and preserved.

4.2   _____ is the frequency width of a transmission channel in Hertz, Kilohertz, Megahertz. etc.

4.3   8 bits of data is called _____.

4.4   A form of real-time electronic communication is called _____.

4.5   A _____ is a file downloaded on your system by a web page which includes information about your usage.

4.6   _____ servers are used to resolve the routing of e-mail and internet connections.

4.7   _____ is a internet protocol that permits you to transfer files between your system and another system.

4.8   _____ is a network topology in which all computer and devices are connected directly to a central hub.

4.9   _____ is a coding system used to create www pages.

4.10   _____ in a web page brings you to another location or resource when activated.

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

5.
a) What is a peer to peer network and how is it used?
b) What is internet crime? Write about any two internet crimes.
c) What is packet switching technology? How packet switching technology is used on Internet?
d) Differentiate between a firewall server and a proxy server?

(4+4+4+3)

6.
a) Explain Domain Name System?
b) What are routers? What are the benefits of routers?
c) What is the difference between SLIP and PPP?

(5+5+5)

7.
a) Explain how CGI works?
b) Write a HTML program using web form to display a table with 4 rows and 5 columns. Give appropriate heading to the form.

(5+10)

8.
a) What is Usenet? How do you identify the newsgroup by its name?
b) Write about Video Conferencing on the Internet? Explain the three different technologies used for live video conference.
c) How does the List Server work?

(5+5+5)

9. Write short notes on **any three** of the following:
a) Wireless Networking
b) Web Publishing
c) MIME
d) Public-Key Cryptography
e) JavaScript

(3x5)