M3-R3: INTERNET 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 advantages of XML over HTML are
   i)   It allows processing of data stored in web-pages
   ii)   It uses meaningful tags which helps in understanding the nature of a document
   iii) It is simpler than HTML
   iv)   It separates presentation and structure of document
A)   i), ii) and iii)
B)   i), ii) and iv)
C)   ii), iii) and iv)
D)   i), iii) and iv)

1.2   DNS links IP addresses to
A)   a binary string
B)   alphanumeric string
C)   a hierarchy of domain names
D)   a hexadecimal string

1.3   It is possible to display pictures (i.e, images) in HTML specification by using the tag
A)   <GR src = Picture file>
B)   <PIC src =Picture file>
C)   <IMG src =Picture file>
D)   <GIF src=Picture file>

1.4   Desirable properties of a website are
       i)   a meaningful address
       ii)   help and search facilities
       iii)   links to related sites
       iv)   features to allow users to give feedback
       v)   hosting on a mainframe
A)   i), ii), iii)
B)   i), ii), iii), iv)
C)   i), ii), iii), iv), v)
D)   i), ii), iii), v)

1.5   A URL specifies the following
       i)   protocol used
       ii)   domain name of server hosting web page
       iii)   name of folder with required information
       iv)   name of document formatted using HTML
       v)   the name of ISP
A)   i), ii), iii), iv)
B)   ii), iii), iv), v)
C)   i), iii), iv)
D)   i), ii), iii), v)

1.6   A search engine is a program to search
A)   information
B)   web pages
C)   web pages for information using specified search terms
D)   all of the above

1.7   Which one of the following is NOT an example of an extension in a URL?
A)   .gov
B)   .npr
C)   .edu
D)   .com

1.8   A world wide web contains web pages
A)   residing in many independent computers
B)   created using HTML only
C)   with links to other web pages on same computer
D)   residing in many computers linked together using HTML & domain names

1.9   By an extranet we mean
A)   an extra fast computer network
B)   the intranets of two co-operating organizations interconnected via a secure leased line
C)   an extra network used by an organization for higher reliability
D)   an extra connection to internet provided to co-operating organization

1.10 Internet packet data structure consists of
      i)   source address
      ii)   destination address
      iii)   serial number of packets
      iv)   message bytes
      v)   control bits for error checking
      vi)   path identification bits

A)   i), ii), iii)
B)   i), ii), iii), iv)
C)   i), ii), iii), iv), v)
D)   i), ii), iii), iv), v), vi)

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   Internet uses Telephone switching.

2.2   Internet data is broken up as variable length packets.

2.3   World Wide Web is another name for internet.

2.4   By an intranet we mean a network connecting all computers of an organization which uses the internet protocol.

2.5   A web page is located using Universal Record Linking.

2.6   A URL specifies the name of ISP.

2.7   HTML is similar to a scripting language.

2.8   HTML uses user defined tags.

2.9   HTML and XML are markup languages based on SGML.

2.10   The time taken by internet packets can be predetermined before transmission.

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
3.1	Scripting Language	**A.**	Java
3.2	E-Mail address must have	**B.**	SGML
3.3	Indian ISP	**C.**	EDI
3.4	Programming Language	**D.**	Patent Law
3.5	Server Pages	**E.**	SET
3.6	Data Interchange	**F.**	ITACT2000
3.7	Copyright are protected by	**G.**	VSNL
3.8	Protocol responsible for hypertext transmission	**H.**	TCP/IP
3.9	Algorithm for encryption	**I.**	JSP
3.10	Markup Language	**J.**	@ sign
		K.	JavaScript
		L.	HTTP
		M.	WIPRO

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.	keywords	B.	compiler	C.	web authoring
D.	EDI	E.	content	F.	media
G.	interpreter	H.	Compiler and interpreter both	I.	search engine
J.	FTP	K.	client	L.	e-mail
M.	protect	N.	server	O.	chat
P.	attack	Q.	telnet	R.	frontpage

4.1   Outlook express is software used to transfer _____.

4.2   JSP is _____ side scripting Language.

4.3   Browser use _____ for web page presentation.

4.4   Electronic data are transmitted between two devices through _____.

4.5   META tag in HTML hold _____.

4.6   _____ is a way to login to other site for purpose of receiving/sending files.

4.7   Firewall is software to _____ computer

4.8   Java code execution need _____.

4.9   Indexing is mechanism used by _____.

4.10   Dreamweaver is _____ tool.

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

5.
a) Define the term: Internet, Intranet, Extranet.
b) Define terms: FTP session, FTP client, Archive site.
c) Explain concept of hypertext with example. What are the advantage and disadvantages of HTML as a means to present multimedia?

(3+4+8)

6.
a) Explain types of lists offered by HTML. Explain each with example.
b) What is Network protocol? Explain Open System Interconnection (OSI) model of Network with all layers.
c) What is URL? Explain URL Syntax with example. Also explain three parts of URL.

(5+5+5)

7.
a) What is E-mail? Explain protocols to access mailbox.
b) Web browser is used for browsing web pages. Explain major features of Internet Explorer (IE) browser of Microsoft. What are Cookies? Write steps to remove Cookies from IE.

(8+7)

8.
a) Explain importance of scripting in web development. Write Java script code for simple addition operation of two integers.
b) What is multimedia? Explain multimedia computers with configuration.
c) List and briefly explain components of Web publishing.

(5+5+5)

9.
a) Protocols are the rules for computer communication. What is an Internet protocol? List various internet protocols. Explain any two common and widely used internet protocols.
b) What is HTTP? Explain significance of this protocol.
c) Write short notes on Telnet.
d) Explain the term:
   i) Firewall
   ii) Copyright act

(6+3+2+4)