

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. (1 x 10)**
 - 1.1 Which of the following is a web server?
 - A) Mozilla Firefox
 - B) Postfix
 - C) Bind
 - D) Apache
 - 1.2 What does http stand for?
 - A) HTML Text Transfer Protocol
 - B) Hyper Text Transfer Protocol
 - C) High Transfer Tier Program
 - D) HTML Type Transfer Protocol
 - 1.3 What is a spider?
 - A) A program that crawls around the web and stores pages in search engines
 - B) Hacking software that spreads virally
 - C) Software that examines network vulnerabilities
 - D) A protocol for distributing large files
 - 1.4 Which one of the following is NOT an example of an extension in a URL?
 - A) .gov
 - B) .edu
 - C) .npr
 - D) .com
 - 1.5 In HTML, what does a <textarea> tag do?
 - A) Creates a paragraph
 - B) Aligns text
 - C) Renders a box that you can type in

D) Defines the borders of a webpage

- 1.6 What does FTP stand for?
A) Firewall Transfer Programming
B) File Transmission Protocol
C) File Transfer Protocol
D) File Transfer Program
- 1.7 What product did Amazon first sell?
A) Online Advertising
B) Books
C) Music
D) DVDs and Video
- 1.8 How many bits are in a byte?
A) 8
B) 1
C) 24
D) 256
- 1.9 How many layers are there in the OSI model?
A) 3
B) 5
C) 7
D) 10
- 1.10 On the internet, which version of the Internet Protocol is the most widely used?
A) IPv1
B) IPv3
C) IPv4
D) IPv6

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. (1 x 10)

- 2.1 Portal is another word for search engine.
- 2.2 The Internet and the World Wide Web are the same.
- 2.3 An address such as www.cnn.com is an IP address.
- 2.4 The term “Multimedia” on a computer system means that you can run full motion video, stereo sound and text at the same time.
- 2.5 A LAN is a large area network.
- 2.6 A byte is commonly used as a unit of storage measurement in computers.
- 2.7 The Internet has a loose tiered hierarchical structure of ISPs.
- 2.8 A *datagram* is an independent, self-contained message sent over the network whose arrival, arrival time and content are not guaranteed.
- 2.9 JPEG is a lossy compression technique.
- 2.10 HTML does not allow a web page to include an image.

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. (1 x 10)

X		Y	
3.1	This refers to how much data you can send through a network or modem connection.	A.	Download
3.2	This is the logic that computers use to determine if a statement is true or false.	B.	JPEG
3.3	Placeholders for saving web addresses, or URLs.	C.	MODEM
3.4	The process of transferring a copy of a file from a server to a client computer over the internet.	D.	Digital certificate
3.5	A method used to send authenticated information over web.	E.	Home Page
3.6	A site, or directory, that contains the same information as another site.	F.	Bandwidth
3.7	A website's first page or an individual's unique, personal page	G.	SMTP
3.8	This is the protocol used by computers to transfer web pages to one another.	H.	HTML
3.9	a file format for the storage of graphics in a computer file	I.	URL
3.10	An electronic device that allows your computer to exchange information with other computers over phone lines.	J.	Mirror site
		K.	Bookmarks
		L.	FTP
		M.	Boolean

		N.	HTTP
--	--	-----------	------

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. (1 x 10)

A.	Javascript	B.	Automated search	C.	RFC
D.	DAQ	E.	Packet switching	F.	Circuit switching
G.	DNS	H.	Mail server	I.	UDP
J.	URL	K.	Hypertext	L.	FTP
M.	TCP and IP	N.	ISP		

- 4.1 The documents that define TCP/IP and related Internet technology are called _____.
- 4.2 A(n) _____ system permits multiple pairs of computers to communicate across a shared network with minimal delay.
- 4.3 A company that offers Internet access is known as _____.
- 4.4 A computer connected to the Internet needs both _____ software.
- 4.5 A computer on the Internet only needs to know one _____.
- 4.6 Menus embedded in text are called _____.
- 4.7 Given a valid _____, a browser can go directly to the page without passing through other documents.
- 4.8 Some public mailing lists and newsgroups maintain a file of _____ and answers.
- 4.9 _____ is an active document technology.
- 4.10 _____ tools help users to find a set of pages that contain information related to a given topic.

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

- 5.**
- a) What is Internet? What are various applications of Internet?
 - b) What are the ways to find needed information on the Internet? How can you find information, when you know or don't know its location URL?
 - c) What are Web browsers and what are they used for? What Web browsers do you know?
- (5+5+5)**

- 6.**
- a) What is meant by HTML and HTTP? What are the four basic operations specified by a browser that HTTP supports?
 - b) What is email? What is a "mail box"? How does an email address look like? What are the protocols used for sending/receiving e-mails?
 - c) How is the header output from a CGI program interpreted by the server?
- (5+5+5)**

- 7.**
- a) Explain, how does a client test a server using Telnet.
 - b) What is MIME? How does it help in sending binary data via e-mail message?
 - c) Distinguish between LAN, WAN and MAN on the basis of architecture and geographical area coverage.
- (5+5+5)**

- 8.**
- a) What do you understand by the term "Hierarchy" of Usenet Newsgroups? How do you identify a newsgroup?
 - b) i) Write HTML Script to create the following Web page.
 - LIST1.**
 - 1. Breakfast
 - 2. Lunch
 - 3. Dinner
 - LIST2.**
 - * Cars
 - * Trucks
 - * Buses
 - ii) Give HTML commands to achieve the following:
 - Put the following in bold typeface "I am Bold"
 - Put the following in italic typeface "This is Italic"

(8+7)

- 9.** Write short notes on any three of the following:
- a) Multimedia applications
 - b) JAVA and JAVA Script
 - c) Search Engines
 - d) Firewall
- (5x3)**