

A2-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 E-mail message can be protected by
 - A) Encryption
 - B) Caching
 - C) Mirroring
 - D) Shadowing
 - 1.2 IP address of a packet is normally analysed by
 - A) CPU
 - B) Router
 - C) Modem
 - D) Hub
 - 1.3 MIME stands for:
 - A) Multipoint Internet Mail Extensions
 - B) Multimedia Interface Mail Extensions
 - C) Multipoint Mail Extensions
 - D) Multipurpose Internet Mail Extensions
 - 1.4 Which connector is used mostly with STP?
 - A) BNC
 - B) RJ-11
 - C) RJ-45
 - D) RJ-69
 - 1.5 Which of the following cable media is not affected by electromagnetic interference (EMI)?
 - A) Fibre optic
 - B) Co-axial Cable
 - C) Shielded Twisted Pair Cable (STP)
 - D) Unshielded Twisted Pair Cable (UTP)
 - 1.6 WebCrawler has a web robot called
 - A) Crawler Robot
 - B) Crawl bot
 - C) Web bot
 - D) Web robot

- 1.7 A modem is not needed when accessing the internet through
A) Wi-Fi
B) LAN
C) Cable
D) None of the above
- 1.8 WAN stands for
A) Wire Accessible Network
B) Widely Accessible Network
C) Wide Area Network
D) Wire and Network
- 1.9 Which tag is a container?
A) <body>
B)

C) <hr>
D) <td>
- 1.10 Which of the following is used to send or receive files between two computers?
A) SLIP
B) URL
C) Internet Explorer
D) FTP

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 Fibre optic cable has lower attenuation than copper wires.
- 2.2 10 Base 2 is a Ethernet standard on thick Ethernet coaxial cable.
- 2.3 FDDI is another ring based network that is implemented without hub.
- 2.4 Fibre optic channels have the ‘core’ as a very thin strand of highly refined cylindrical glass.
- 2.5 IPX stands for internet work protocol exchange.
- 2.6 Actual Internet Addresses are numerical and called Domain Name Systems.
- 2.7 Internet is not owned by any company or country.
- 2.8 JavaScript has no facilities for communicating between web browser & http server.
- 2.9 Two machines can have the same IP address if they are connected in same segment of LAN.
- 2.10 Gigabyte is equal to 1000 kilobytes.

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	MIME	A.	Optical fibre
3.2	100 Base Fx	B.	Client Side
3.3	Virus	C.	Relational
3.4	CGI	D.	E-mail
3.5	Database	E.	Replicating Code Segment
3.6	Copyright are protected by	F.	VB Script
3.7	Top Level Domain	G.	Patent Law
3.8	Dial-In User Service	H.	com
3.9	Derivate off VB Language	I.	RADIUS
3.10	Network Protocol	J.	ASCII
		K.	Ethernet
		L.	Point Light
		M.	Ring

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.	POP3	B.	Trojan House	C.	Packet Switched
D.	Circuit Switched	E.	SPAM	F.	DNS
G.	Shareware	H.	<NoFrame>	I.	Oracle
J.	PPM	K.	Virus	L.	JAVA
M.	CGI				

- 4.1 Speed of Printer is measured in _____.
- 4.2 _____ is a relational database.
- 4.3 _____ Tag is used to tackle the problem caused by the browser that does not support frame.
- 4.4 _____ is a software you can obtain from anywhere but must purchase after a set condition.
- 4.5 _____ matches Domain name to IP addresses.
- 4.6 Unsolicited commercial e-mail is called _____.
- 4.7 ISDN is an example of _____ network.
- 4.8 X.25 is an example of _____ network.
- 4.9 _____ is a security attack in which someone inside a company is tricked into running a computer program that sends information from person's computer to outsider?
- 4.10 _____ is used for fetching email from a remote mailbox.

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

5.

a) Write HTML code for

TITLE				
apple		Banana		
cat	delhi		Elephant	
fox	grapes	hat	ice	jug
kites		luck		

b) Write a short note on Internet Security.

c) Differentiate between Telnet & FTP.

(5+5+5)

6.

a) What are POP and IMAP in context of e-mail? Give merits and demerits of POP.

b) Differentiate between TCP & UDP in detail.

(7+8)

7.

a) Compare Bus, Star and Ring Topologies.

b) Write a short note on e-commerce.

c) What are the components of Front Page? Describe each one of them in detail.

(5+5+5)

8.

a) What is Firewall? Explain in detail.

b) Explain how Search Engine works?

c) Compare dynamic & Static website.

(5+5+5)

9. Write short notes on any **three** of the followings:

a) URL

b) E-mail Address

c) WWW

d) Java Script

(5x3)