

## 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 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  |                |
|------|---|----|----------------|
| 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)

|           |           |           |           |           |        |
|-----------|-----------|-----------|-----------|-----------|--------|
| <b>A.</b> | Hyperlink | <b>B.</b> | Baudrate  | <b>C.</b> | FTP    |
| <b>D.</b> | Applet    | <b>E.</b> | HTML      | <b>F.</b> | Bus    |
| <b>G.</b> | Byte      | <b>H.</b> | Chat      | <b>I.</b> | DNS    |
| <b>J.</b> | Star      | <b>K.</b> | Bandwidth | <b>L.</b> | Cookie |
| <b>M.</b> | 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)**