

No. of Printed Pages : 8

Sl. No.

B12-R4 : INTERNET TECHNOLOGY AND WEB DESIGN

DURATION : 03 Hours

MAXIMUM MARKS : 100

OMR Sheet No. :

Roll No. :

Answer Sheet No. :

Name of Candidate : _____ ; Signature of Candidate : _____

INSTRUCTIONS FOR CANDIDATES :

- Carefully read the instructions given on Question Paper, OMR Sheet and Answer Sheet.
- Question Paper is in English language. Candidate has to answer in English language only.
- There are **TWO PARTS** in this Module/Paper. **PART ONE** contains **FOUR** questions and **PART TWO** contains **FIVE** questions.
- **PART ONE** is Objective type and carries **40** Marks. **PART TWO** is Subjective type and carries **60** Marks.
- **PART ONE** is to be answered in the **OMR ANSWER SHEET** only, supplied with the question paper, as per the instructions contained therein. **PART ONE** is **NOT** to be answered in the answer book for **PART TWO**.
- 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** to the Invigilator.
- **Candidate cannot leave the examination hall/room without signing on the attendance sheet and handing over his/her Answer Sheet to the invigilator. Failing in doing so, will amount to disqualification of Candidate in this Module/Paper.**
- After receiving the instruction to open the booklet and before answering the questions, the candidate should ensure that the Question Booklet is complete in all respects.

DO NOT OPEN THE QUESTION BOOKLET UNTIL YOU ARE TOLD TO DO SO.

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 "OMR" answer sheet attached to the question paper, following instructions therein.

(1x10)

1.1 Which of the subsequent assertions is true ?

- (A) WLAN is a wide area network
- (B) Hubs are used to deliver incoming data packets to the appropriate network device.
- (C) A device receives an IP address when it is being manufactured.
- (D) In order to connect a device to a network, an interface card is required.
- (E) A device received MAC address when it is being manufactured

(A) (A) and (B) only

(B) (B) and (E) only

(C) (D) and (E) only

(D) (B), (C) and (D) only

1.2 Which of the following protocols is used in the internet ?

(A) HTTP

(B) DHCP

(C) DNS

(D) All of the above

1.3 Which of the following icon is used to add an attachment to an email ?

(A) Stationery icon

(B) Paper Clip icon

(C) GIF icon

(D) Emoji icon

1.4 Which network topology requires a central controller or hub ?

(A) Star

(B) Mesh

(C) Ring

(D) Bus

1.5 What is e-mail ?

(A) Method of exchanging messages via electronic devices

(B) Speed message transfer to location

(C) Musical messaging service

(D) None of these

1.6 What does FTP stand for ?

(A) Folder Text Protocol

(B) File Transfer Push

(C) Fixed Terminology Placement

(D) File Transfer Protocol

- 1.7 What is the initial network communication called ?
- (A) Micronet
 - (B) ARPANET
 - (C) Network
 - (D) APRENET
- 1.8 Which of the following HTML tag is used to insert a line break ?
- (A)

 - (B) <lb>
 - (C) <break>
 - (D) <newline>
- 1.9 Which programming language is used to write animation and games in browser using applet ?
- (A) C
 - (B) C++
 - (C) Java
 - (D) Basic
- 1.10 The information that gets transformed in encryption is :
- (A) Secure text
 - (B) Parallel text
 - (C) Decrypted text
 - (D) Encrypted text
2. Each statement below is either TRUE or FALSE. Choose the most appropriate one and ENTER in the "OMR" sheet attached to the question paper, following instructions therein. (1x10)
- 2.1 URL stands for Unicorn Riding Location.
- 2.2 TCP is unreliable protocol.
- 2.3 E-mail addresses are case sensitive.
- 2.4 A web page on a website is created using HTML.
- 2.5 It is possible to send images via email.
- 2.6 HTML tags define the presentation of specified elements of a document.
- 2.7 JavaScript is a scripting language.
- 2.8 The external JavaScript file must contain <script> tag.
- 2.9 World Wide Web Command is a short form for W3C.
- 2.10 Application level gateway firewalls are also used for configuring cache-servers.

3. Match words and phrases in column X with the closest related meaning / words(s) / phrase(s) in column Y. Enter your selection in the "OMR" answer sheet supplied with the question paper, following instructions therein. (1x10)

X		Y	
3.1		A.	Topology
3.2	<tr> <td>	B.	Information Security
3.3	#	C.	CSS Class
3.4	<i>	D.	Photo Editor Application
3.5	TCP	E.	Check Point
3.6	A Protocol used by email clients to retrieve email messages from a mail server	F.	HTML table tags
3.7	Firefox	G.	CSS ID
3.8	Bus	H.	Internet protocol suite
3.9	Encryption & Decryption	I.	Tag for inserting image
3.10	Protocol used for transferring file	J.	To make text italic
		K.	Browser
		L.	FTP
		M.	IMAP

4. Each statement below has a blank space to fit one of the word(s) or phrases in the list below. Enter your choice in the "OMR" answer sheet attached to the question paper, following instructions therein.

(1x10)

A.	Bus	B.	One Time Password	C.	128
D.	Scripting	E.	<a>	F.	Outlook Express
G.	Switches	H.	16	I.	<alink>
J.	Hypertext Transfer Protocol	K.	Attachments	L.	Authentication
M.	Routers				

- 4.1 _____ work at the network layer and are responsible to find the shortest path for a packet across the network.
- 4.2 The size of an IP address in IPv6 is _____.
- 4.3 _____ allows user to send a file with e-mail.
- 4.4 _____ topology requires a multipoint connection.
- 4.5 The _____ tag defines a hyperlink in HTML.
- 4.6 OTP stands for _____.
- 4.7 Verification of a login name and password is known as _____.
- 4.8 Javascript is _____ language.
- 4.9 _____ is a software for handling E-mails specifically.
- 4.10 HTTP stands for _____.

PART TWO

(Answer any FOUR questions)

5. (a) What is Internet ? What are its advantages and disadvantages ?
- (b) Explain Packet Switching and Delays in Computer Network.
- (c) Explain different types of Network topologies in detail.

(4+5+6)

6. (a) State the difference between TCP/IP and OSI Model.
- (b) What is JavaScript ? What can we build with JavaScript ?
- (c) What is internet connectivity ? Explain its connection types in detail.

(6+3+6)

7. (a) What is World Wide Web ? Explain the working of WWW in brief ?
- (b) What is computer network ? List out various types of computer network. Explain LAN and WAN in brief.
- (c) Explain the structure of Electronic mail in detail.

(3+6+6)

8. (a) What is Ecommerce ? Describe different categories of Ecommerce.
- (b) What is SGML ? Explain its structure and Syntax with an example.

(8+7)

9. (a) Define following protocols : [1] SMTP [2] IMAP4 [3] POP3 [4] PPP
- (b) What is Multimedia ? Describe different categories of Multimedia in brief.
- (c) What is firewall ? Explain the working and types of firewall.

(4+5+6)

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SPACE FOR ROUGH WORK

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