A2/B1.2-R4 : INTERNET TECHNOLOGY AND WEB DESIGN

अवधि : 03 घंटे
DURATION : 03 Hours

अधिकतम अंक : 100
MAXIMUM MARKS : 100

ओएमआर शीट सं. :
OMR Sheet No. :

रोल नं. :
Roll No. :

उत्तर-पुस्तिका सं. :
Answer Sheet No. :

परीक्षार्थी का नाम :
Name of Candidate : _____

परीक्षार्थी के हस्ताक्षर :
; Signature of Candidate : _____

परीक्षार्थियों के लिए निर्देश :

Instructions for Candidate :

कृपया प्रश्न-पुस्तिका, ओएमआर शीट एवं उत्तर-पुस्तिका में दिये गए निर्देशों को ध्यानपूर्वक पढ़ें।	Carefully read the instructions given on Question Paper, OMR Sheet and Answer Sheet.
प्रश्न-पुस्तिका की भाषा अंग्रेजी है। परीक्षार्थी केवल अंग्रेजी भाषा में ही उत्तर दे सकते हैं।	Question Paper is in English language. Candidate can answer in English language only.
इस मॉड्यूल/पेपर के **दो भाग** हैं। **भाग एक** में **चार** प्रश्न और **भाग दो** में **पाँच** प्रश्न हैं।	There are **TWO PARTS** in this Module/Paper. **PART ONE** contains **FOUR** questions and **PART TWO** contains **FIVE** questions.
भाग एक ''वैकल्पिक'' प्रकार का है जिसके कुल अंक 40 हैं तथा **भाग दो** ''व्यक्तिपरक'' प्रकार का है और इसके कुल अंक 60 हैं।	**PART ONE** is Objective type and carries 40 Marks. **PART TWO** is Subjective type and carries 60 Marks.
भाग एक के उत्तर, इस प्रश्न-पत्र के साथ दी गई **ओएमआर उत्तर-पुस्तिका** पर, उसमें दिये गए अनुदेशों के अनुसार ही दिये जाने हैं। **भाग दो** की उत्तर-पुस्तिका में **भाग एक** के उत्तर **नहीं** दिये जाने चाहिए।	**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**.
भाग एक के लिए अधिकतम समय सीमा **एक घण्टा** निर्धारित की गई है। **भाग दो** की उत्तर-पुस्तिका, **भाग एक** की उत्तर-पुस्तिका जमा कराने के पश्चात् दी जाएगी। तथापि, निर्धारित एक घंटे से पहले **भाग एक** पूरा करने वाले परीक्षार्थी **भाग एक** की उत्तर-पुस्तिका निरीक्षक को सौंपने के तुरंत बाद, **भाग दो** की उत्तर-पुस्तिका ले सकते हैं।	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.
परीक्षार्थी, उपस्थिति-पत्रिका पर हस्ताक्षर किए बिना और अपनी उत्तर-पुस्तिका, निरीक्षक को सौंपे बिना, परीक्षा हॉल/कमरा नहीं छोड़ सकते हैं। ऐसा नहीं करने पर, परीक्षार्थी को इस मॉड्यूल/पेपर में अयोग्य घोषित कर दिया जाएगा।	**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.**
प्रश्न-पुस्तिका को खोलने के निर्देश मिलने के पश्चात् एवं उत्तर लिखना आरम्भ करने से पहले उम्मीदवार जाँच कर यह सुनिश्चित कर लें कि प्रश्न-पुस्तिका प्रत्येक दृष्टि से संपूर्ण है।	After receiving the instruction to open the booklet and before starting to answer the questions, the candidate should ensure that the Question Booklet is complete in all respect.

जब तक आपसे कहा न जाए, तब तक प्रश्न-पुस्तिका न खोलें।
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 supplied with the question paper, following instructions therein.

(1x10=10)

1.1 The facilities available in the internet are :
   (i) electronic mail
   (ii) remote login
   (iii) file transfer
   (iv) word processing
   (A) (i), (ii)
   (B) (i), (ii) and (iv)
   (C) (i), (ii) and (iii)
   (D) (ii), (iii) and (iv)

1.2 Which of the following services use TCP ?
   (i) DHCP   (ii) SMTP
   (iii) HTTP   (iv) TFTP   (v) FTP
   (A) (i) and (ii)
   (B) (i), (ii) and (iv)
   (C) (i), (iii) and (iv)
   (D) (ii), (iii) and (v)

1.3 A firewall may be implemented in :
   (A) bridges used in an intranet
   (B) routers which connect intranet to internet
   (C) expensive modem
   (D) user's application programs

1.4 What flavour of Network Address Translation can be used to have one IP address allow many users to connect to the global Internet ?

   (A) Static

   (B) Dynamic

   (C) PAT

   (D) NAT

1.5 FTP is built on architecture :

   (A) P2P

   (B) IM

   (C) IRC

   (D) Client-server

1.6 Mail access starts with client when user needs to download e-mail from the :

   (A) Mail Host

   (B) Mail Server

   (C) Mail Box

   (D) Internet

1.7 For carrying out C2C e-Commerce the following infrastructure is essential :

(i) World Wide Web

(ii) Corporate network

(iii) Electronic data interchange standards

(iv) Secure payment services

(v) Secure electronic communication link connecting businesses

(A) (i) and (ii)

(B) (ii) and (iv)

(C) (i) and (iii)

(D) (i) and (iv)

1.8 Which of the following is considered as first web browser ?

(A) Nexus

(B) Netscape Navigator

(C) Internet Explorer

(D) Mosaic

1.9 Apart from <b> tag, what other tag makes text bold ?

(A) <fat>

(B) <strong>

(C) <black>

(D) <emp>

1.10 What tag is used to display a picture in a HTML page ?

(A) picture

(B) image

(C) img

(D) src

2. **Each statement below is either TRUE or FALSE. Choose the most appropriate one and enter your choice in the "OMR" answer sheet supplied with the question paper, following instructions therein.**

(1x10=10)

2.1 The Internet was created by a U.S. military research agency.

2.2 UDP is a connection-oriented protocol.

2.3 A firewall is software and/or hardware that protect a computer or network from intruders.

2.4 A client/server network is a network in which only one computer is a server and provides services to the other computers, which are called clients.

2.5 Extranet is a web within a web.

2.6 You should always open an attachment before saving it.

2.7 E-commerce is not about technology-it's about your business.

2.8 Tables can be nested (table inside of another table).

2.9 You cannot designate an inline image as a hyperlink.

2.10 In VBScript, function can return multiple values.

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 "OMR" answer sheet supplied with the question paper, following instructions therein.** (1x10=10)

	X		Y
3.1	Internet works on	**A.**	Not case sensitive
3.2	HTML used to create	**B.**	FTP
3.3	Moving from one website to another is called	**C.**	IBM
3.4	TCP/IP is a	**D.**	Circuit switching
3.5	NetBIOS is developed by	**E.**	Browsing
3.6	Application level protocol	**F.**	The world wide web consortium
3.7	Remote desktop protocol server runs on	**G.**	Servers
3.8	Remote desktop protocol client runs on	**H.**	Routers
3.9	The HTML tags are all	**I.**	Packet switching
3.10	Who is making the web standards	**J.**	Protocol
		K.	Webpage
		L.	Hosts
		M.	Case sensitive

4. Each statement below has a blank space to fit one of the word(s) or phrase(s) in the list below. Choose the most appropriate option, enter your choice in the "OMR" answer sheet supplied with the question paper, following instructions therein.

(1x10=10)

A.	Router	B.	Telnet	C.	Half-Duplex
D.	27	E.	Arpanet	F.	Design
G.	XHTML	H.	Switch	I.	Website
J.	DHTML	K.	25	L.	Code
M.	FTP				

4.1 A _____ is a device that connects multiple computers into a network in which multiple communications links can be in operation simultaneously.

4.2 A conversation on walkie-talkie is a _____ data flow.

4.3 _____ is used to access and operate a remote computer on a network.

4.4 The port number of E-mail is _____.

4.5 _____ was the predecessor to the internet.

4.6 The collection of information for communication is known as _____.

4.7 _____ is the current standard language used to create Webpages.

4.8 A _____ is a device that acts as a smart hub connecting computers into a network, and it also separates yours network from other networks.

4.9 _____ view shows the page as it would appear in a browser and is primarily used for designing and creating a Webpage.

4.10 _____ view shows the underlying HTML code for the page, but not how it will look on a browser.

PART TWO

(Answer any FOUR questions.)

5. (a) What is Net Etiquette ? Specify the good Net Etiquette rules.

   (b) What is Internet Crime ? Explain the various types of Internet Crimes.

   (c) What is TCP/IP ? Explain how the TCP/IP model layers work.
   (5+5+5=15)

6. (a) What is an Internet Service Provider (ISP) ? What is an Internet access technology ?

   (b) Describe the Integrated Service Digital Network (ISDN) system, services and architecture.

   (c) What is firewall in networking ? Explain several types of firewall.
   (5+6+4=15)

7. (a) What is an Ethernet ? Different types of Ethernet networks and Ethernet cables.

   (b) What is FDDI (Fiber Distributed Data Interface) and explain FDDI network architecture.

   (c) What is DNS ? How does DNS works ? How many DNS servers are involved in loading a webpage ?
   (6+4+5=15)

8. (a) Write short note on FTP, SMTP, MIME and DSL.

   (b) What is Document Management System (DMS) ? Explain the various components of DMS.
   (10+5=15)

9. (a) Explain the basic structure of an HTML document and provide the several types of HTML lists.

   (b) Write short note on HTML vs JavaScript and Java vs JavaScript.

   (c) What is importance of network security and explain different types of network attacks ? What is copyright and its issues ?
   (6+3+6=15)

- o 0 o -

SPACE FOR ROUGH WORK

SPACE FOR ROUGH WORK