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

अवधि : 03 घंटे
DURATION : 03 Hours

अधिकतम अंक : 100
MAXIMUM MARKS : 100

परीक्षार्थियों के लिए निर्देश : / Instructions for 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 सकता है।	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 है तथा **भाग दो** ''व्यक्तिपरक'' प्रकार का है और इसके कुल अंक 60 है।	**PART ONE** is Objective type and carries 40 Marks. **PART TWO** is Subjective type and carries 60 Marks.
भाग एक के उत्तर, **ओएमआर उत्तर-पुस्तिका** पर 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. **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)

1.1 How many heading tags are there in HTML ?

(A) 2

(B) 3

(C) 6

(D) 8

1.2 This is a networking device that passes data between networks having similar functions but dissimilar implementations.

(A) Hub

(B) Modem

(C) Gateway

(D) Repeater

1.3 DNS translates _____.

(A) domain name into IP

(B) IP into domain name

(C) domain name into physical address

(D) both (A) and (B)

1.4 Which of the following is used to increase the row height ?

(A) row span

(B) col span

(C) cell spacing

(D) cell padding

1.5 In order to connect to ISP's server you need _____.

(A) Hand gloves

(B) Printer

(C) User name and Password

(D) None of the above

1.6 In order to upload a HTML file to a web server, you use _____.

(A) HTTP

(B) SMTP

(C) SIP

(D) FTP

1.7 Once the email is sent, the message is broken into pieces called _____.

    (A)   Packets

    (B)   Process

    (C)   Digits

    (D)   Bytes

1.8 _____ is a web's native protocol.

    (A)   SLIP

    (B)   TCP/IP

    (C)   HTTP

    (D)   PPP

1.9 _____ is a uniform naming scheme for locating resources on the web.

    (A)   URI

    (B)   HTTP

    (C)   WEBNAME

    (D)   RESOURCENAME

1.10 Which of the following is best suitable for remote administration of a computer ?

    (A)   Telnet

    (B)   WAIS

    (C)   Browsers

    (D)   HTML

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)

2.1 The IP address space is divided into classes four in all which are given letters A through D.

2.2 The act of exploring Web is known as surfing.

2.3 The two parts of an e-mail address is separated by @ symbol.

2.4 URL stands for Uniform Record Locator.

2.5 Every computer (or server) on the internet has its own IP address number.

2.6 ASP pages are active web pages.

2.7 Firewall is used to block sites on a LAN.

2.8 XML uses predefined tags like HTML.

2.9 SMTP protocol is used by a mail client program to fetch mail from mail server.
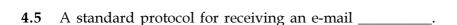
2.10 There are no collisions in full-duplex mode.

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 attached to the question paper, following instructions therein.** (1x10)

	X		Y
	X		**Y**
3.1	The tag used to divide the HTML page	**A.**	Demodulation
3.2	The leading bit pattern of class B network is _____	**B.**	Client Side Scripting language
3.3	To make your website mobile friendly, you can make your website	**C.**	DIV
3.4	What does CSS stand for ?	**D.**	Patent Law
3.5	Java Script is	**E.**	Current Style Sheets
3.6	Copyright are protected by	**F.**	Cascading Style Sheets
3.7	A security protocol generally used for secured transactions on the internet	**G.**	Server Side Scripting language
3.8	An internet standard that extends the format of e-mail to support text in character sets	**H.**	10
3.9	Top Level Domain	**I.**	SSL
3.10	Converting analog signal to digital signals	**J.**	Responsive
		K.	MIME
		L.	com
		M.	Half duplex

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 "OMR" answer sheet attached to the question paper, following instructions therein.** **(1x10)**

A.	CRC	B.	Byte	C.	FTP
D.	Frame	E.	127.0.0.1	F.	MAC address
G.	Bandwidth	H.	127.0.0.0	I.	POP3
J.	A Computer virus	K.	A program that catalogs web sites	L.	LAN
M.	Net id				

4.1   The physical address is known as _____.

4.2   Error detection at data link level is achieved by _____.

4.3   _____ is loopback address.

4.4   A unit of data at data link layer is _____.

4.5   A standard protocol for receiving an e-mail _____.

4.6   _____ is the frequency width of a transmission channel in Hertz, Kilohertz, Megahertz etc.

4.7   A spider is _____.

4.8   _____ is suitable for single building.

4.9   The portion of the IP address that identifies the network is called the _____.

4.10 The address of router is _____.

PART TWO

(Answer any FOUR questions)

5. (a) Write short note on the "Fundamental ASP Objects".

    (b) Differentiate between dynamic website and static website.

    (c) What is HTML file and ASP file ? List the advantages and limitations of HTML. State the benefits and drawback of ASP. **(5+3+7)**

6. (a) Explain the attributes of table tag in HTML with example.

    (b) Differentiate between meta search engine and search engine.

    (c) Explain about hub and switch in detail. **(5+5+5)**

7. (a) Explain about the HTML form tag with its attributes.

    (b) What is cryptography ? Differentiate between private key cryptography and public key cryptography.

    (c) What is the network topology ? List the different types of network topologies. Explain ring topology in detail. **(5+5+5)**

8. (a) Explain the OSI model in detail.

    (b) Explain the working of web browser and web server together.

    (c) Explain about CGI in brief. **(7+5+3)**

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

    (a) Internet and Intranet

    (b) e-Commerce

    (c) Anti-Virus Software

    (d) Internet Crime **(5+5+5)**

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SPACE FOR ROUGH WORK