B1.2-R4: INTERNET TECHNOLOGY & WEB DESIGN

«srlno»

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: _____; Signature of candidate: _____

परीक्षार्थी के हस्ताक्षर:

परीक्षार्थियों के लिए निर्देश: / Instructions for Candidate:

कृपया प्रश्न-पुस्तिका, ओएमआर शीट एवं उत्तर–पुस्तिका में दिये गए निर्देशों को ध्यान पूर्वक 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 कर सकता है।	Question Paper is in English language. Candidate can answer in English language only.
इस मॉड्यूल/पेपर के दो भाग है। भाग एक में चार प्रश्न और भाग दो में पाँच प्रश्न है।	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 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, इस प्रश्न-पत्र के साथ दी गई ओएमआर उत्तर-पुस्तिका पर, उसमें दिये गए अनुदेशों के अनुसार ही दिये जाने है। 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 पश्चात 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**.
परीक्षार्थी, उपस्थिति-पत्रिका पर हस्ताक्षर किए बिना अथवा अपनी उत्तर-पुस्तिका, निरीक्षक को सौंपे बिना, परीक्षा हाल नहीं छोड़ सकता हैं। ऐसा नही 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 or handing over his 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 पश्चात एवं उत्तर देने से पहले उम्मीदवार यह जाँच कर यह सुनिश्चित कर ले कि प्रश्न-पुस्तिका प्रत्येक दृष्टि से संपूर्ण है।	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 respect.

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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 FTP is
A) Server side encryption protocol
B) Control connection to remote computer to transfer files
C) User Datagram Protocol.
D) Authorization of a user through login and password verification.

1.2 Client-side extensions:
A) Add functionality to the script running on Server.
B) Add functionality to the script running on user Computer.
C) Add functionality to the script running on network devices
D) Add functionality to the script running on firewall devices

1.3 To join on the Internet, the computer has to be connected through the
A) Internet architecture board
B) Internet society
C) Internet service provider
D) none of the mentioned

1.4 Which protocol assigns IP address to the client connected in the Internet?
A) DHCP
B) IP
C) TCP
D) Telnet

1.5 IRC stands for
A) Internet Related Chat
B) Internet Relay Chat
C) Internet Related Content
D) Internet Reliable Content

1.6 An _____ is a series of unique numbers that identifies a computer connected to the Internet. Every computer that gets online has an Internet address.
A) Ethernet
B) Internet Protocol
C) Internet Address
D) Extranet Address

1.7 Integrated Services for Digital Network (ISDN) is a set of communication standards for simultaneous digital transmission of:
A) voice
B) video
C) data
D) All of the above

1.8 How to define hyperlink to open in New Page in HTML?
A) Click Here
B) Click Here
C) Click Here
D) Click Here

1.9 Website means:
A) URL + Web Space + HTML Content
B) URL + Web Space + Name Resolution
C) URL + Web Space + Name Resolution + HTML Content
D) HTML Content + Web Space + Name Resolution

1.10 A firewall is installed at the point where the secure internal network and un-trusted external network meet which point is known as
A) Choke point
B) Meeting point
C) Firewall point
D) Secure point

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 HTML Tags are case sensitive.
2.2 MIME stands for Multi-Program Internet Mail Extensions.
2.3 The Back and Forward buttons can be used to visit only pages from the same website.
2.4 Refresh button returns to home page.
2.5 E-mail is limited to text based messages.
2.6 Web browser lets you download while surfing the Internet.
2.7 In the ring topology, the network consists of a set of repeaters joined by point-to-point links in a closed loop.
2.8 Default port of SMTP is 25.
2.9 Back-end code runs on Client side and front-end on Server side.
2.10 ATM is Automatic Teller Machine in terms of Transfer Mode.

ROUGH WORK SPACE:

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)**

	X		Y
3.1	An application layer protocol that facilitates communication in the form of text.	A.	Electronic Commerce
3.2	Markup Language.	B.	(n-1)/2
3.3	Number of links to connect n nodes in a fully connected mesh topology is _____.	C.	n(n-1)/2
3.4	Trading in products or services using the Internet.	D.	Workstation
3.5	Server-side scripting language.	E.	JavaScript
3.6	A special computer designed for scientific applications.	F.	XML
3.7	_____ that provides you with access to the Internet.	G.	Multimedia
3.8	The process of encoding messages or information in such a way that only authorized parties can read it.	H.	Network Architecture
3.9	Network topology is also referred as	I.	Internet Relay Chat (IRC)
3.10	Combination of different content forms.	J.	DHCP
		K.	Active Server Pages (ASP)
		L.	Internet Service Provider (ISP)
		M.	Encryption

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)**

A.	FTP	B.	ARPANET	C.	Hacking
D.	Signature File	E.	Bus	F.	Hijacking
G.	Search engines	H.	Client side	I.	Private Key
J.	LAN	K.	Symmetric Cryptography	L.	POP3
M.	Asymmetric Cryptography				

4.1 Coaxial cable is suitable for _____ topology.

4.2 A _____ is a short text file you create to append at the end of your e-mail notes or Usenet messages.

4.3 _____ is a standard protocol for receiving e-mail.

4.4 _____ are programs that search documents for specified keywords and returns a list of the documents where the keywords were found.

4.5 Javascript is a _____ scripting language.

4.6 Control connection and Data Connection are used in _____.

4.7 The _____ was an early packet switching network and the first network to implement the protocol suite TCP/IP.

4.8 _____ is known as Computer crime.

4.9 A _____ is a network that connects computers and other devices in a relatively small area, typically a single building or a group of buildings.

4.10 _____ is cryptography in which a pair of keys is used to encrypt and decrypt a message so that it arrives securely.

ROUGH WORK SPACE:

PART TWO
(Answer any FOUR questions)

5.
a)   Explain the Public Key Cryptosystem.
b)   How to know if you have been a victim of an Internet attack?
c)   How is JavaScript different from Java?

(5+5+5)

6.
a)   Differentiate between SMTP, POP3 and IMAP?
b)   What is a Meta Search Engine?
c)   Write a HTML code to create a page which accepts Name, Male/Female (Radio Button), Address, City (drop down), Hobby (Check box), and having Submit and Reset buttons.

(5+4+6)

7.
a)   Write positive and negative impact of the Internet on society.
b)   Write a HTML code to create a following table:

Train Number	Train Name	Timing	
		Arrival	Departure
14854	Marudhar Express	5:30AM	5:45AM
16381	Guwahati Express	6:50AM	7:15AM
19877	Chennai Express	8:00AM	8:30AM

c)   What are the various E-commerce Models?

(5+5+5)

8.
a)   What is Email Encryption? Also, explain with an example.
b)   Create following frameset in HTML:

XYZ Public School	
Indipuram, Amrawati, Hyderabad	
About Organisation Corporate Contact Us Search	

c)   Explain the term collaborative computing.

(6+4+5)

9.   Explain the following terms:
a)   FDDI
b)   Client Server Model
c)   Firewall

(5+5+5)

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ROUGH WORK SPACE:

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