Class: X Session: 2020-21

Computer Applications (Code 165)

Sample Question Paper (Theory)

Marking Scheme

Maximum Marks: 50 Time Allowed: 2 Hours

Question No.	Part-A	Marks allocated
	Section-I	
	This section consists of 13 questions of very short answer type. Question no. 4 to 8 are of 'fill in the blank' type. Fill the blank with the most appropriate answer. Attempt any 10 questions from question no 1 to 13.	
1	What is a Homepage?	1
Ans	The default (first) page of a website is called a Homepage.	
	(1 Mark for the correct answer)	
2	Which heading element gives the most prominent headings?	1
Ans	<h1></h1>	
	(1 Mark for the correct answer)	
3	Give one use of anchor tag.	1
Ans	Anchor tag is used to create hyperlinks.	
	(1 Mark for the correct answer)	
4	tag is used for a horizontal line.	1
Ans	HR tag	
	(1 Mark for the correct answer)	
5	An empty HTML element has a tag but no tag.	1
Ans	start, end	
	(1/2 Mark each for start and end)	
6	tag creates a bulleted list.	1
Ans		
	(1 Mark for the correct answer)	

7	The code for inserting an image in an HTML page is <imgsrc=" "="" alt=" ">. The alt attribute is used for</imgsrc=">	1
Ans	specifying alternate text for the image	
	(1 Mark for the correct answer)	
8	Ravi was trying to log-in to his net-banking account. He noticed that the URL of the net banking starts with 'https'. The 's' in 'https' stands for	1
Ans	Secure	
	(1 Mark for the correct answer)	
9	Sarita is designing a webpage and wants to change the name of the font (font-type) for certain text. Which attribute of the FONT tag she should use.	1
Ans	face	
	(1 Mark for the correct answer)	
10	What is the use of br> tag in HTML Code?	1
Ans	tag is used to insert a single line break in a HTML Document.	
	(1 Mark for the correct answer)	
11	What is the significance of the URL?	1
Ans	URL specifies unique address of each document on the internet.	
	(1 Mark for the correct answer)	
12	What is the importance of vlink attribute of <body> tag?</body>	1
Ans	vlink attribute specifies the color of visited links in a document	
	(1 Mark for the correct answer)	
13	What is the method of using comment line in the HTML code?	1
Ans	Any text	
	(1 Mark for the correct answer)	
	Section-II Both the Case study based questions are compulsory. Attempt any 5 questions (out of 7 questions) from each case study. Each question carries 1 mark	
14	Internet Protocols For communication over the Internet, the communicating devices must follow certain rules. These rules are called Internet protocols. For email communication, we use SMTP and POP. For communication between browser and server	

	HTTP and HTTPS protocols are used. We can use	
	TELNET to access services available on a remote	
	computer.	
(i)	Which of the following is an Internet Protocol.	1
	a) HTTP	
	b) FTP	
	c) both (a) and (b)	
	d) None of the above	
Ans	c) both (a) and (b)	
	(1 Mark for the correct answer)	
(ii)	SMTP protocol is	1
	a) used for composing an emailmessage.	
	b) used in receiving incoming emails by pulling the	
	message from server to client	
	c) used in sending outgoing emails by pushing the	
	message from client to server	
	d) None of the above	
Ans	c) used in sending outgoing emails by pushing the	
	message from client to server	
	(1 Mark for the correct answer)	
(iii)	POP protocol is	1
	a) used for composing an emailmessage.	
	b) used in receiving incoming emails by pulling the	
	message from server to client	
	c) used in sending outgoing emails by pushing the	
	message from client to server	
	d) None of the above	
Ans	b) used in receiving incoming emails by pulling the	
	message from server to client	
	(1 Mark for the correct answer)	
(iv)	Which of the following internet protocols provides secure	1
	data transmission between server and browser with the	
	help of encryption.	
	a) HTTP	
	b) HTTPS	
	c) TELNET	
	d) ARPANET	
Ans	b) HTTPS	
	(1 Mark for the correct answer)	
(v)	The full form of POP (email protocol) is	1
	a) Post Order Protocol	
	b) Push Order Protocol	
	c) Post Office Protocol	
	d) Pull Over Protocol	

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	person during transmission.	
	c) Transmission of data	
	d) None of the above	
Ans	,	
Alis	b) Data can not be accessed by any authorized person	
	during transmission	
(")	(1 Mark for the correct answer)	4
(ii)	Which of the following techniques can be used for security	1
	of data.	
	a) Authentication	
	b) Authorisation	
	c) Encryption	
	d) All of the Above	
Ans	d) All of the Above	
	(1 Mark for the correct answer)	
(iii)	Caesar Cipher is	1
	a) used for conversion of the actual message into an	
	encrypted message	
	b) an encryption technique	
	c) both (a) and (b)	
	d) None of the above	
Ans	c) both (a) and (b)	
	(1 Mark for the correct answer)	
(iv)	Person 'X' has received an encrypted message and wants	1
	to convert this message into the actual message (message	
	before encryption). The technique he should use is called	
	a) Conversion	
	b) Encryption	
	c) Decryption	
	d) None of the above	
Ans	c) Decryption	
	(1 Mark for the correct answer)	
(v)	A sender wants to send a message having the text as	1
, ,	'COMPUTER' to a receiver using 4 as the key. What will be	
	the encrypted message?	
	a) GSQTZXIV	
	b) GSQTYXIV	
	c) GSXTYXIV	
	d) GSQSYXIV	
Ans	b) GSQTYXIV	
	(1 Mark for the correct answer)	
(vi)	An encryption algorithm is used to transform a readable	1
	message into:	
	a) Text message	
<u> </u>	,	

	h) O'	
	b) Simple message	
	c) Converted message	
	d) Encrypted message	
Ans	c) Encrypted message	
	(1 Mark for the correct answer)	
(∨ii)	In Ceaser Cipher, for which of the following values of key,	1
	the encrypted message will be the same as original	
	message.	
	a) 0	
	b) 26	
	c) both (a) and (b)	
	d) None of the above	
Ans	c) both (a) and (b)	
	(1 Mark for the correct answer)	
	Part –B	
	All questions are compulsory. In case of internal choices, attempt any one.	
	choices, attempt any one.	
16	Sarvesh, a student of Class X, is not able to understand	2
	the difference between web client and web-server. Help	
	him in understanding the same by explaining their role and	
	giving suitable example of each.	
Ans	Web-Client: An application (Web Browser, Chatting	
	Program, etc.) that requests for services from a web-	
	server. Example: Web Browsers, Chatting Applications	
	Web-Server: Web-server is a software (or any dedicated	
	computer running this software) that serves the request	
	made by web-clients.	
	Example: Apache Server	
	(1/2 mark each for explaining the role of Web-Client and	
	Web-Server)	
	(1/2 mark each for example of web-client and web-server)	
17	Write the full form of Cc and Bcc (used in	2
	emailcommunication). Explain the difference between	
	them.	
Ans	Cc : Carbon Copy: every recipient can check who else has	
	received the mail.	
	Bcc : Blind Carbon Copy: no recipient can check who else	
	has received the mail.	
	(1/2 mark each for full form of Cc and Bcc)	
	(1 mark for explaining the correct difference)	
18	What is the use of _{and ^{tag. Explain with}}	2
	suitable example.	

Ans	_{: defines subscripted text}	
	<pre>^{: defines superscripted text}</pre>	
	Example	
	To write a ² : a ²	
	To write CO ₂ : CO ₂	
	(1/2 mark each for explaining the use of _{and}	
	tag)	
	(1/2 mark each for example of _{and ^{tag)}}	
19	Sunil wants to insert an image 'elearning.jpg' into a	2
	webpage. Write the name and the syntax of the HTML Tag	
	she should use. The alternate text for the image should be	
	'E-learning Image'	
Ans	Name of Tag : Image Tag ()	
	Syntax of Tag : <imgsrc "elearning.jpg"="" =="" alt="E-learning</td><td></td></tr><tr><td></td><td>Image"></imgsrc>	
	(1/2 mark for correct name of tag)	
	(1/2 mark for correct use of img tag in syntax)	
	(1/2 mark for correct use of src attribute)	
	(1/2 mark for correct use of alt atribute)	
20	Define the following	2
	(i) Intellectual Property Rights	
	(ii) Plagiarism	
	OR	
	What is e-commerce? Write any two preventive	
A	measuresto be taken for secure online transaction.	
Ans	Intellectual Property Rights: rights given to creators for creations of their minds.	
	Plagiarism: taking credit of ideas/words of another person OR	
	e-commerce: Buying and selling of goods on the internet	
	Two preventive measures for secure online transaction	
	Never share OTP with anyone.	
1	_	
	2. Before making an online payment, ensure that	
	Before making an online payment, ensure that connection is secure (HTTPS)	
	Before making an online payment, ensure that connection is secure (HTTPS) (1 mark each for the correct definition of Intellectual	
	Before making an online payment, ensure that connection is secure (HTTPS)	
	Before making an online payment, ensure that connection is secure (HTTPS) (1 mark each for the correct definition of Intellectual Property Rights and Plagiarism) OR	
	Before making an online payment, ensure that connection is secure (HTTPS) (1 mark each for the correct definition of Intellectual Property Rights and Plagiarism) OR (1 mark for the correct definition of e-commerce)	
21	Before making an online payment, ensure that connection is secure (HTTPS) (1 mark each for the correct definition of Intellectual Property Rights and Plagiarism) OR	3
21	2. Before making an online payment, ensure that connection is secure (HTTPS) (1 mark each for the correct definition of Intellectual Property Rights and Plagiarism) OR (1 mark for the correct definition of e-commerce) (1/2 mark each for two preventive measures) Shalini, a web designer, wants to create a webpage to	3
21	2. Before making an online payment, ensure that connection is secure (HTTPS) (1 mark each for the correct definition of Intellectual Property Rights and Plagiarism) OR (1 mark for the correct definition of e-commerce) (1/2 mark each for two preventive measures)	3
21	2. Before making an online payment, ensure that connection is secure (HTTPS) (1 mark each for the correct definition of Intellectual Property Rights and Plagiarism) OR (1 mark for the correct definition of e-commerce) (1/2 mark each for two preventive measures) Shalini, a web designer, wants to create a webpage to display a list where each item is listed by a number. Which	3
21 Ans	2. Before making an online payment, ensure that connection is secure (HTTPS) (1 mark each for the correct definition of Intellectual Property Rights and Plagiarism) OR (1 mark for the correct definition of e-commerce) (1/2 mark each for two preventive measures) Shalini, a web designer, wants to create a webpage to display a list where each item is listed by a number. Which type of list she should use? Explain the role of start and	3

	Role	
	Start Attribute: specifies the start value of an ordered list	
	Type Attribute: specifies the type of the list item marker	
	(1 mark for the correct list type)	
	(1 mark each for explaining the correct role of start and	
	type attributes)	
22	What are the roles of Rowspan and Colspan attribute?	3
22	Explain with suitable HTML example.	3
Ans	Rowspan : Combine Cells vertically	
Alis	Colspan : Combine Cells horizontally	
	Example	
	<pre></pre>	
	Row-1 Column-1	
	•	
	Row-1and2 Column-4	
	Row-2 Column-1	
	Row-2 Column-2	
	Row-2 Column-3	
	(1/2 mark each for explaining correct role of Rowspan and	
	Colspan)	
	(1 mark each for correct explaination of Rowspan and	
	Colspan using HTML example)	
23	Saroj, a student of Class X, wants to represent a table in	3
	webpage but she is unaware about the table tag. Explain	
	her the role of , and tag. Write HTML code of	
	a table and show the use of , and tag.	
Ans	: defines table row.	
	: defines table header.	
	: defines table data/cell.	
	HTML Code	
	Roll Number	
	Name	
	Stream	

	1	
	Ajay	
	Arts	
	<	
	Vijay	
	Commerce	
	<	
	<	
	Commerce	
	(1/2 mark each for explaining the correct role of ,	
	and tag)	
	(1.5 mark for correct code of HTML table showing the use	
	of , and tag)	
24	What is the digital divide? Write any two reasons for digital	3
24	divide in India.	3
Ans	Digital Divide refers to the differing amount of information	
	between those who have access to ICT and those who	
	don't have access.	
	Reasons	
	 due to the unequal distribution of wealth, poverty is 	
	higher in rural areas	
	Less Literacy rate in rural India	
	(1 mark for the correct definition of digital divide)	
	(1 mark each for any two correct reasons for the digital	
	divide in India)	
25	Define Internet and write its two uses in our daily life. How	3
	is it different from the World Wide Web (www).	
	OR	
	What is e-learning? Explain any two merits of e-learning.	
Ans	The Internet is a worldwide network that links many smaller	
	computer-networks.	
	Uses of the Internet	
	1. e-learning	
	2. e-commerce	
	The difference between the internetandwww	
	www: It is a collection of various hypertext documents	
	available over the internet. www is a part of the internet.	
	internet: A worldwide network that provides various other	
	1	1

		_
	services (apart from www) like email-communication, File	
	sharing, etc.	
	OR	
	e-learning: learning through the courses which are	
	delivered online.	
	Benefits:	
	1. Self Paced (Learn at your speed).	
	2. We can attend classes atanytime and anywhere.	
	(1 mark for the correct definition of the internet)	7
	(1/2 mark each for writing two use of internet in daily life)	
	(1 mark for explaining the correct difference between	
	internet and www)	
	OR	
	(1 mark for the correct definition of e-learning)	
l	(1 mark each for writing any two merits of e-learning)	
26		+
20	Our Country : India	
	₹	
	O-unit- ,	
	India is spread over a large geographical area. In terms of area, it	
	is the 7 th largest country while in terms of population, it is the 2 nd	
	largest country in the world. Some facts about India are as follows	
	Area : Approx 3.28 million sq. km North to South extension : Approx 3,200 km	
	East to West extension : Approx 2900 km	
	Write the HTML code to design the above-shown web page	,
	considering the specifications as given below:	
	Background color of the page should be yellow.	
	Heading 'Our Country: India' should be the first	
	level of heading	
	The image named 'India.jpg' should be placed at	
	the center.	
	Formatting style for the paragraph	
	○ Font Size: 5	
	 Font Name: Times New Roman 	
	o Color: Red	
	Superscript and subscript tags should be used	
	wherever required.	
	 Facts (as shown in the above web-page) should be 	
	written with the help of the unordered list.	
	I mile in the market of the direction had	

	OR Answer the following a. What is a Hypertext link? b. Give the name and the syntax of the HTML Tag which is used for creating a Hypertext Link. c. Neha wants to display a 'Click Here' message on her webpage which, when clicked, opens a new webpage 'Chapter2.html'. Write the syntax of the HTML command she should use. d. On the same webpage, Neha whose email is neha@xyz.com, wants to display a 'Contact us' message which when clicked open theemail program and allows the user to send a mail to Neha.Write the syntax of the HTML command she should use.	
	e. Explain the use of the target attribute in the Hypertext Link Tag.	
Ans	<pre><html> <body bgcolor="yellow"> <body bgcolor="yellow"> <body> <center> <h1> Our Country : India </h1> <imgsrc="india.jpg"> </imgsrc="india.jpg"></center> India is spread over a large geographical area. In terms of area, it is the 7th largest country while in terms of population, it is the 2nd largest country in the world. Some facts about India are as follows Area :Approx 3.28 million sq. km Area :Approx 3.28 million sq. km East to West extension :Approx 3,200 km East to West extension :Approx 2900 km Approx 2900 km <li< td=""><td></td></li<></body></body></body></html></pre>	
	Address">Hyperlink Text	

c. Click Here	
d. Contact us	
e.Specifies where to open the linked document when the link is clicked.	
(1/2 mark for the correct <html> structure)</html>	
(1/2 mark for the correct use of bgcolor attribute of <body></body>	
(1/2 mark for the correct use of <h1> tag)</h1>	
(1/2 mark for the correct use of image src tag)	
(1/2 mark for the correct use of <center> or attribute align</center>	
= 'middle' in)	
(1/2 mark for the correct use of font color)	
(1/2 mark for the correct use of font size)	
(1/2 mark for the correct use of font face)	
(1/2 mark for the correct use of ^{tag)}	
(1/2 mark for the correct use of unordered list)	
OR	
a. (1 mark for the correct definition of Hypertext link)	
b. (1/2 mark each for name and writing syntax of anchor	
tag)	
c. (1 mark for correct syntax)	
d. (1 mark for correct syntax)	
e. (1 mark for explaining the use of target attribute)	