

Sample Question Paper (Term-2)
Class: X Session: 2021-22
Computer Applications (Code 165)

Maximum Marks: 25

Time Allowed: 02 Hours

General Instructions:

1. The Question Paper contains three sections A, B and C. Each section is compulsory.
2. Section A has 4 questions of short answer type. Each question is of 2 marks. Internal choice is provided in 1 question.
3. Section B has 3 questions of Long Answer Type-I (LA-I). Each question is of 3 marks. Internal choice is provided in 1 question.
4. Section C has 2 questions of Long Answer Type-II (LA-II). Each question is of 4 marks.

Q No.	Section-A (Total 8 Marks) This section has 4 questions of short answer type. Each question is of 2 marks. Internal choice is provided in 1 question	Marks
1	Write suitable HTML Code to Embed audio and video in a webpage.	2
2	What do you understand by the term URL? How is it different from an email address? OR What do you understand by a newsgroup? How is it different from a blog?	2
3	What is a Hypertext link? Give the name and the syntax for the HTML tag which is used for creating a Hypertext Link.	2
4	Rohit, a student of Class X, wants to represent a table in webpage but he is unaware about the table tags. Explain him the role of <tr> and <td> tag. Write HTML code of a table and show the use of <tr> and <td> tag.	2
	Section-B (Total 9 Marks) This section has 3 questions of Long Answer Type-I (LA-I). Each question is of 3 marks. Internal choice is provided in 1 question.	
5	Define Internet and write its two uses in our daily life. How is it different from the World Wide Web (www).	3
6	What is e-learning? Explain any two merits of e-learning	3
7	"A web browser is different from a web server". Explain any two differences in web browser and web server with suitable example of each. OR Explain any two differences between 3G and 4G mobile technologies.	3
	Section-C (Total 8 Marks) This section has 2 questions of Long Answer Type-II (LA-II). Each question is of 4 marks. Question-9 is of case-based type.	

8	<p>Read the case study given below and attempt any 4 sub-questions (out of 5). Each sub-question carries 1 mark.</p> <p>Mr. Harish, an accountant, works in an IT firm and due to the pandemic, has been asked to work from home. He has set up his online office at his home. He has purchased a laptop, web camera and other accessories. Now he has started working from home and performs his various duties online.</p>																
(i)	Mr. Harish wants to hold an online meeting with the company's client such that he can interact as well as see them. Which web service should he avail?	1															
(ii)	Mr. Pritish sends an email to Harish requesting him to prepare the balance sheet. Which network protocol is involved during this email communication?	1															
(iii)	The company's financial head needs to send some high security documents to Mr. Harish. He uses an application which supports the _____ protocol.	1															
(iv)	In order to gather some information on latest accounting trends, Mr. Harish has to do some research. He can do this by locating sites online using a _____.	1															
(v)	Joseph, the company secretary sends a link to Mr. Harish which contains important company files. What should he do in order to access the files?	1															
9	<p>Write the HTML code to design the web page as shown below, considering the specifications as given below. Students can write code for any 4 specifications out of the given 5 specifications.</p> <div><h2>HTML TABLE</h2><table><tr><th>Roll Number</th><th>First Name</th><th>Last Name</th><th>Class</th></tr><tr><td>1</td><td>FN1</td><td>LN1</td><td>12th</td></tr><tr><td>2</td><td>FN2</td><td>LN2</td><td rowspan="2">11th</td></tr><tr><td>3</td><td colspan="2">FN3 LN3</td></tr></table></div> <p>Specification-1 : The HTML code structure should be proper. Heading 'HTML TABLE' should be the first level of heading and Background color of the page should be LightCyan.</p> <p>Specification-2 : The value of the table border attribute should be 1. Table header tag should be used wherever required.</p> <p>Specification-3 : The table should exactly contain 4 rows and 4 columns. The data in each cell should be as shown in the above table.</p> <p>Specification-4 : Attribute rowspan should be used wherever required.</p> <p>Specification-5 : Attribute colspan should be used wherever required.</p>	Roll Number	First Name	Last Name	Class	1	FN1	LN1	12th	2	FN2	LN2	11th	3	FN3 LN3		4
Roll Number	First Name	Last Name	Class														
1	FN1	LN1	12th														
2	FN2	LN2	11th														
3	FN3 LN3																

Marking Scheme
Class: X Session: 2021-22
Computer Applications (Code 165)

Maximum Marks: 25

Time Allowed: 02 Hours

Q No.	Section-A	Marks
1	<p>HTML Code for Embedding Video : <code><video controls><source src="VideoFile.mp4"></video></code> HTML Code for Embedding Audio : <code><audio controls><source src="AudioFile.mp3"></Audio></code></p> <p>1 mark for code of Embedding Video 1 mark for code of Embedding Audio</p>	2
2	<p>URL stands for Uniform Resource Locator. It is basically a web address that identifies a resource on the internet. An email address is an account on a mail server. The main difference is that an email address contains an '@' sign whereas a URL never has it. An email address does not start with a www.</p> <p>1 mark for correct definition of URL. 1 mark for correct difference</p> <p style="text-align: center;">OR</p> <p>A newsgroup is an Internet-based discussion group. It is organized around a particular topic, eg cyber safety. People can post messages on the group regarding the topic. Anyone can join a discussion group A blog is more like a website where an individual or group of people write about anything that interests them eg, sports, culture etc. It is usually owned by an individual and we can only post comments on a blog if it is allowed to do so.</p> <p>1 mark for correct definition of newsgroup. 1 mark for correct difference</p>	2
3	<p>Hyperlink allows us to link HTML elements (text and/or image) to another document or new section within the current document. Name : anchor tag, Syntax <code>Hyperlink Text</code></p> <p>1/2 mark for correct definition. 1/2 mark for correct name of tag 1 mark for correct syntax</p>	2
4	<p><code><tr></code> : defines table row. <code><td></code> : defines table data/cell.</p>	2

	<p>HTML Code</p> <pre><table> <tr> <td>1</td> <td>Ajay</td> <td>Arts</td> </tr> <tr> <td>2</td> <td>Vijay</td> <td>Commerce</td> </tr> </table></pre> <p>1 mark for the correct role 1 mark each for correct HTML Code</p>	
Q No.	Section-B	Marks
5	<p>Internet is a world-wide network of interconnected computer networks and other devices. It provides us with a very easy, fast and convenient way to access any type of information. It uses the standard Internet Protocol (TCP/IP).</p> <p>Two uses:</p> <ol style="list-style-type: none"> 1. To access any educational site example : khan academy. 2. To send and receive emails using an email service. <p>The world wide web, or web for short, are the pages you see when you're at a device and you're online whereas the internet is the network of connected computers that the web works on.</p> <p>1 mark for correct definition of Internet 1 mark for uses 1 mark for the difference between www and Internet</p>	3
6	<p>E learning can be defined as a learning system which makes use of electronic resources mainly computers and the internet. It encompasses everything from traditional classrooms that incorporate basic technology to online schools and universities.</p> <p>Merits</p> <p>Since in e learning teachers use technology to teach, it is highly engaging. Students can learn anywhere, anytime according to their convenience thus saving a lot of time and money.</p> <p>1 mark for correct definition 1 mark each for two merits</p>	3

7	<p>A Web Browser is a software that can be used to browse and display pages available over internet whereas a web server is a software which provides these documents when requested by web browsers.</p> <p>A web browser sends request to web servers for web services etc. and a web server responds to these requests by providing the required documents.</p> <p>Google chrome is an example of a web browser whereas Apache server is an example of a web server.</p> <p>1 mark for each correct difference. 1 mark for correct example of web browser and web server</p> <p style="text-align: center;">OR</p> <p>The main difference between a 3G and 4G mobile technology is the speed</p> <table><tr><td>3G, the 3rd generation of wireless mobile telecommunications tech</td><td>4G is the 4th generation of broadband cellular network technology, succeeding 3G.</td></tr><tr><td>A typical 3G phone can download files at a maximum speed of up to 21Mbps.</td><td>4G phone can download files at speeds of upto 1GBps</td></tr></table> <p>1.5 mark for each correct difference</p>	3G, the 3rd generation of wireless mobile telecommunications tech	4G is the 4th generation of broadband cellular network technology, succeeding 3G.	A typical 3G phone can download files at a maximum speed of up to 21Mbps.	4G phone can download files at speeds of upto 1GBps	3
3G, the 3rd generation of wireless mobile telecommunications tech	4G is the 4th generation of broadband cellular network technology, succeeding 3G.					
A typical 3G phone can download files at a maximum speed of up to 21Mbps.	4G phone can download files at speeds of upto 1GBps					
Q No.	Section-C	Marks				
8 (i)	Video conferencing such as Skype, Zoom etc 1 mark for correct answer	1				
8 (ii)	SMTP(Simple Mail Transfer Protocol) and POP(Post Office Protocol) 1 mark for correct answer	1				
8 (iii)	SSH(Secure Shell) 1 mark for correct answer	1				
8 (iv)	Search engine / web browser 1 mark for correct answer	1				
8 (v)	Download the files from the link 1 mark for correct answer	1				
9	<pre><html> <head> </head> <body bgcolor="LightCyan"> <h1>HTML TABLE</h1> <table border="1"> <tr></pre>	4				

```

<th>Roll Number</th>
<th>First Name</th>
<th>Last Name</th>
<th>Class</th>
</tr>
<tr>
<td>1</td>
<td>FN1</td>
<td>LN1</td>
<td>12th</td>
</tr>
<tr>
<td>2</td>
<td>FN2</td>
<td>LN2</td>
<td rowspan="2">11th</td>
</tr>
<tr>
<td>3</td>
<td colspan="2">FN3 LN3</td>
</tr>
</table>
</body>
</html>

```

1 mark for correct <html> structure (i.e <html><head></head><body></body></html>) and Specification-1
1 mark for correct HTML code for Specification-2
1 mark for correct HTML code for Specification-3
1 mark for correct HTML code for Specification-4
1 mark for correct HTML code for Specification-5