Class: X Session: 2023-24
Computer Applications (Code 165)
Sample Question Paper (Theory)

Maximum Marks: 50   **Time Allowed: 2 hours**

General Instructions:
1. This Question Paper has 5 Sections A-E.
2. All Questions are compulsory. However, internal choices have been provided in some of the questions.
3. Section A has 12 questions carrying 01 mark each.
4. Section B has 7 Short Answer (SA-I) type questions carrying 02 marks each.
5. Section C has 4 Short Answer (SA-II) type questions carrying 03 marks each.
6. Section D has 1 Long Answer (LA) type question carrying 04 marks.
7. Section E has 2 Source based /Case-based /Passage based Questions carrying 04 marks each.

SECTION – A
(All questions are compulsory)

1. The acronym SSH stands for_____.
   a. Safe Shell
   b. Software Shell
   c. Secure Shell
   d. Simple Shell
2. Which of the following is an example of social networking website?
   a. wikipedia.org
   b. Facebook.com
   c. cbse.gov.in
   d. ncert.nic.in
3. M in HTML stands for:
   a. Modify
   b. Management
   c. Multiple
   d. Markup
4. A _____ is an online journal or informational website run by an individual, group, or corporation that offers regularly updated content about a topic.
   a. News group
   b. Blog
   c. WWW
   d. e-Groups
5. Which of the following is not a valid value for the target attribute of <a> tag?
   a. _blank
   b. _self
   c. _top
   d. _bottom

6. link, vlink, alink are attributes of_____ tag.
   a. <body>
   b. <a>
   c. <html>
   d. <img>

7. The_____ attribute of <img> tag specifies an alternate text for an image, if the image cannot be displayed.
   a. alt
   b. text
   c. alternate
   d. msg

8. Which of the following tag can be used to draw a horizontal line in webpage?
   a. <line>
   b. <hrule>
   c. <hr>
   d. <rule>

9. In HTML, <dl>, <dd> and <dt> tags are used to create:
   a. Description list
   b. Definition list
   c. Detail list
   d. Dynamic list

10. A software _____ is a legal instrument governing the use or redistribution of software.
    a. license
    b. law
    c. document
    d. piracy

Questions No-11 & 12 are Assertion and Reason types. Each question consists of two statements, namely, Assertion (A) and Reason (R). Select the most suitable option considering the Assertion & Reason.

11.
Assertion (A): Search engine is a hardware device that searches for any websites on the World Wide Web.
Reason (R): Google Search and Microsoft's Bing are two popular search engines.
(a) Both Assertion (A) and Reason (R) are true and Reason (R) is a correct explanation of Assertion (A).
(b) Both Assertion (A) and Reason (R) are true but Reason (R) is not a correct explanation of Assertion (A).
(c) Assertion (A) is true and Reason (R) is false.
(d) Assertion (A) is false and Reason (R) is true.

12.

Assertion (A): CSS saves a lot of work. It can control the layout of multiple web pages all at once.

Reason (R): All the required style settings can be stored in an external stylesheet and a link to it can be added in the <head> section of each web page.

(a) Both Assertion (A) and Reason (R) are true and Reason (R) is a correct explanation of Assertion (A).

(b) Both Assertion (A) and Reason (R) are true but Reason (R) is not a correct explanation of Assertion (A).

(c) Assertion (A) is true and Reason (R) is false.

(d) Assertion (A) is false and Reason (R) is true.

SECTION –B
(2 marks each)

13. Write any two points of comparison in between SMS and MMS.

14. What is e-Learning? Mention its two main advantages.

OR

Briefly discuss the role of e-governance in any country's growth and development.

15. Compare 3G and 4G mobile technologies on any two major points.

16. Which software are termed as open-source software? Name any two such software.

OR

What do you understand by the term Intellectual property right? Discuss briefly.

17. Mention any two purposes of using comments while designing a HTML webpage.

18. Twisha has got confused with a few tags and their attributes. Help her match the tag with correct attribute.

1.	<font>	i. align
2.	<a>	ii. face
3.	<h1>	iii. colspan
4.	<td>	iv. href

OR

Mention any two attributes of <font> tag along with their purposes.

19. Write suitable html statements to display the following text on a webpage in appropriate subscript and superscript form:
   a. CO_2
   b. X^2

SECTION –C
(3 marks each)

20. Ronaldo, a web designer in a start-up company, wants to give headings in a webpage through <h1> tag. Additionally, he wants to implement following styles on all the <h1> tag of the same webpage at one go.
   - Color-blue
   - Background color-yellow
   - border of the heading - 2px in red

He is not able to implement the above-mentioned additional styles of <h1> tag through regular html code. Suggest him a way out and also help him in writing the code for same.

21. Rajat, a web developer, wants to show a video named "**tiger.mp4**" in dimensions of 300px width and 200px height on the web page. Help Rajat by writing its html code.

22. Abhilasha has just designed a web page. At the end of the web page, she wants to insert an image "next.jpg".
    She needs to link another web page with this image, i.e., whenever anyone click on the image "next.jpg", another web page named "second.html" should open. Help her in writing the code to achieve it.
    Note: Assume that image and both the web pages are stored in the same folder.

<div align="center">OR</div>

Write HTML code to design the content of the web page in the form of lists as shown below:

STREAM WISE CAREER OPTIONS

- Science
  a. Engineering
  b. Medical
  c. Research
- Commerce
- Humanities

23. What do you understand by the term "Digital Divide"? Mention any two measures to overcome it.

<div align="center">**SECTION –D**
(4 marks)</div>

24. Customer Analytics firm needs to design a survey form as shown below:

Name: [   ]
City:
New Delhi ▲
Chennai
Hydrabad ▼
Hobby:
Reading ☐ Writing ☐
Singing ☐ Dancing ☐

Write the suitable HTML code to design it.

<div align="center">OR</div>

Observe the screenshot of the given web page:

SKILL WORKSHOPS		
SNO	SKILL	DAYS
1	Communication Skills	Monday, Wednesday
2	Art & Craft	Tuesday, Friday
3	Personality Development	Wednesday, Saturday

Write suitable HTML code to design it.

SECTION - E
(4 marks each)

Case Study -1

25. Sanchay, has recently joined the Global Network company as a network trainee. Help Sanchay by suggesting the best suitable answers for the following issues which needs to resolved:
    a. Company wants to engage employees in some online fun filled activities to strengthen their inter-personal skills. Suggest any two popular video conferencing software to be used for the same.
    b. Company wants employees to upgrade themselves by exploring internet about latest happenings in the networking field. Suggest any two suitable web browsers for the same.
    c. Sometimes few of the employee needs to remotely login to their office PC from their home. Suggest any one popular software and the protocol being used for the same.
    d. Company wants its employees to be safe while entering their login credentials and bank account details on the internet. Out of http and https, which protocols should be preferred and why?

Case Study -2

26. It is an era of Internet and we as a netizen spend most of our time in the cyber world. Saumya, a class X student, is new to the cyber world. Help her in the following:

    a. Suggest any two netiquettes, which she should follow in order to become a good netizen.
    b. As the last day was approaching, so one of her friends has just submitted the science project by copying and pasting from the internet, without even acknowledging the original source. Is this the right act or wrong? Name the term which is being used for this act.
    c. E-commerce is growing exponentially and so is the risk involved in it. Mention any two common E-commerce frauds in order to make Saumya aware about it.
    d. Suggest her any two precautions to be taken while using E-commerce.

Maximum Marks: 50   **Time Allowed: 2 hours**

QNo	Answer	Distribution of Marks	Total Marks
	SECTION A		
1.	c. Secure Shell	1 Mark for the correct answer	1
2.	b. Facebook.com	1 Mark for the correct answer	1
3.	d. Markup	1 Mark for the correct answer	1
4.	b. Blog	1 Mark for the correct answer	1
5.	d. _bottom	1 Mark for the correct answer	1
6.	a. \<body\>	1 Mark for the correct answer	1
7.	a. alt	1 Mark for the correct answer	1
8.	c. \<hr\>	1 Mark for the correct answer	1
9.	a. Description list	1 Mark for the correct answer	1
10.	a. license	1 Mark for the correct answer	1
11.	(d) Assertion (A) is false and Reason (R) is true.	1 Mark for the correct answer	1
12.	(a) Both Assertion (A) and Reason (R) are true and Reason (R) is a correct explanation of Assertion (A).	1 Mark for the correct answer	1
	SECTION B		
13.	Any two points of comparison in between SMS and MMS: _see table below_	1 Mark each for any two correct comparison point. **Note:** Any other valid point of comparison will also be considered.	2
14.	**E-learning:** It is a method of obtaining knowledge through digital or, web-enabled gadgets like computers, laptops, tablets, or smartphones. **Advantages:** 1. E-learning is self-paced.	1 Mark for correct definition of e-learning. ½ Mark each for any two correct advantages.	2

Question 13 table:

SMS	MMS
It stands for Short Messaging Service.	It stands for Multimedia Messaging Service.
It does not support multimedia content and it allows to send only text.	It supports multimedia content and allows to send images and videos along with text.
It allows message length up to 160 characters.	It allows message length up to 1600 characters.
It is less expensive.	It is more expensive

	2. E-learning is student-centered. 3. E-Learning is cost-effective. 4. E-learning accommodates individual learning styles. **OR** **Role of e-governance in any country's growth and development:** Now-a-days e-Governance has a major role in any country's growth and development as properly designed and implemented, e-Government can improve efficiency in the delivery of government services, simplify compliance with government regulations, strengthen citizen participation and trust in government, and yield cost savings for citizens, businesses, and the government itself.	**Note:** Any other valid advantages will also be considered. **OR** 2 Marks for correct answer	
15.	Two major points of comparison in between 3G and 4G mobile technologies: 	3G (3rd Generation)	4G (4th Generation)
---	---
The maximum upload and download rate is 5 Mbps and 21 Mbps respectively.	The maximum upload and download rate is 500 Mbps and 1 Gbps respectively.
It uses a packet switching technique.	It uses message and packet switching technique.
Its frequency range is from 1.8 GHz to 2.5 GHz.	Its frequency range is from 2 GHz to 8 GHz.		1 Mark each for any two correct points of comparison. **Note:** Any other valid point of comparison will also be considered.	2
16.	Open-source software is a type of computer software that is released under a license, but the source code is made available to all the users to understand it, modify it or re-distribute it. Name of any two OSS: Linux, Firefox **OR** **Intellectual property rights (IPR):** These are the rights granted to individuals over their original creative works such as inventions, literary and artistic work, designs and symbols, names, and images in commerce. These legal rights are granted through patents, copyrights, trademarks, geographical indications, etc. for a specified time period.	1 mark for correct definition of OSS. ½ mark each for any two correct OSS name. **OR** 2 Marks for correct answer.	2
17.	**Any two purposes of using comments while designing a HTML webpage:** 1. With comments one can place notifications and reminders in the HTML code. 2. Comments are also great for debugging HTML, because you can comment out HTML lines of code, one at a time, to search for errors.	1 Mark each for any two correct purposes. **Note:** Any other valid purpose will also be considered.	2
18.	a. 1-ii, 2-iv, 3-i, 4-iii **OR** **Any two attributes of <font> tag along with their purposes:**	1/2 Mark for matching each pair correctly **OR** 1 Mark each for mentioning any two attributes of <font> tag	2

	Size: This attribute is used to adjust the size of the text in the HTML document. The range of size of the font in HTML is from 1 to 7 and the default size is 3. **Face:** Font type can be set by using face attribute with font tag in HTML document. But the fonts used by the user need to be installed in the system first. **Color:** Font color is used to set the text color using a font tag with the color attribute in an HTML document. Color can be specified either with its name or with its hex code.	along with their correct purposes.	
19.	CO_2 X^2	1 Mark for each correct statement	2
SECTION C			
20.	Ronaldo should use css to implement extra styles in <h1> tag. **HTML Code:** <html> <head> <style> h1 {color: blue;background-color:yellow;border: 2px solid red} </style> </head> <body> <h1>Welcome</h1> </body> </html> <style> tag should be placed inside <head> tag of a webpage.	½ Mark for correct suggestion of usage of css. 2 Marks for correct css code and ½ Mark for using internal style sheet	3
21.	HTML code to add a video in a web page: <video width="300" height="200" controls> <source src="tiger.mp4" type="video/mp4"> </video>	1 mark for correct usage of <video> 1 mark for correct usage of <source> tag. ½ mark each for correct usage of height and width attribute	3
22.	<img src="next.jpg"> **OR** <html> <body> STREAM WISE CAREER OPTIONS <ul type="square"> Science <ol type="a">	1.5 Marks for correct usage of <img> tag. 1.5 Marks for correct usage of <a> tag. **OR** 1.5 Marks for correct usage of tag along with . 1.5 Marks for correct usage of tag along with .	3

	`<li>Engineering</li>`
	`<li>Medical</li>`
	`<li>Research</li>`
	`</ol>`
	`</li>`
	`<li>Commerce</li>`
	`<li>Humanities</li>`
	`</ul>`
	`</body></html>`		

23.	The digital divide is the unequal access to digital technology, including smartphones, tablets, laptops, and the internet in the society. Any two measures to overcome it: • Increase affordability of digital technologies • More focus on development of internet infrastructure	1 Mark for correct explanation of the term Digital Divide. 1 mark each for any two correct measures. **Note:** Any other valid measure point will also be considered.	3

SECTION D

24.	**HTML code to design survey form:** `<form>` `Name: <input type="text"> ` `City:  ` `<select size=3>` `<option>New Delhi</option>` `<option>Chennai</option>` `<option>Hydrabad</option>` `</select> ` `Hobby:  ` `Reading<input type="checkbox">` `Writing<input type="checkbox"> ` `Singing<input type="checkbox">` `Dancing<input type="checkbox">` `</form>` <div align=center>**OR**</div> **HTML code to design given html page:** `<html>` `<body>` `<table border=1>` `<tr>` `<th colspan=3>` `SKILL WORKSHOPS` `</th>` `</tr>` `<tr>` `<th>SNO</th>` `<th>SKILL</th>` `<th>DAYS</th>` `</tr>` `<tr>`	1 Mark each for correct usage of each tag `<form>`, `<input type=text>`,`<select>`..`<option>`,`<input type= "checkbox">` <div align=center>**OR**</div> 1 Mark for correct usage of `<table>` tag 1 Mark for correct usage of first `<tr>` tag along with `<th>` tag with colspan attribute. ½ Mark each for correct usage of `<tr>`, `<th>` or `<td>` to display remaining 4 rows	4

```
<td>1</td>
<td>Communication Skills</td>
<td>Monday, Wednesday</td>
</tr>
<tr>
<td>2</td>
<td>Art & Craft</td>
<td>Tuesday, Friday</td>
</tr>
<tr>
<td>3</td>
<td>Personality Development</td>
<td>Wednesday, Saturday</td>
</tr>
</table></body></html>
```

SECTION E

25.	a. Any two popular video conferencing software: Skype, Zoom, Teams, Whatsapp. b. Any two suitable web browsers: Google Chrome, Mozilla Firefox c. Remote login Software: AnyDesk Protocol used in remotely login: TelNet d. https should be preferred as https allows transferring the data in an encrypted form.	a. ½ Mark each for any two correct video conferencing software. b. ½ Mark each for any two correct web browsers. c. ½ Mark each for mentioning one remote log in software and the protocol. d. ½ Mark for mentioning the correct preference ½ Mark for correct justification.	4
26.	**a. Any two netiquettes:** • We should not violate copyright • We should share our expertise with others on the network b. No its not the right act. This act is called plagiarism. **c. Any two common E-commerce frauds:** • Identity Theft • Phishing **d. Any two precautions to be taken while using E-commerce:** • Use updated antivirus software • Always ensure to check https in the web address	a. ½ Mark each for any two correct netiquette. b. ½ Mark for mentioning the act right or wrong ½ mark for mentioning the correct term for the act. c. ½ Mark each for mentioning any two common E-commerce frauds d. ½ Mark each for mentioning any two precautions.	4