

Class: X Session: 2023-24

Maximum Marks: 50

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 Very 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.

1. Online email account, social media account, trademark etc are collectively called _____ [1]
 - a) Digital property
 - b) Online identity
 - c) Digital identity
 - d) Online Asset
2. E-reservation is a process of making reservations of: [1]
 - a) all of these
 - b) tickets
 - c) tourists packages
 - d) hotel rooms
3. Which of these is not an example of Cyber bullying? [1]
 - i. Copying a classmate's personal photo against his/her permission from his social media account and sending it to other friends on their e-mails.
 - ii. Bullying a classmate in the school corridor.
 - iii. Threatening someone on whatsapp.
 - iv. Posting mean messages about someone on their social media.
 - a) Option (iv)
 - b) Option (iii)
 - c) Option (ii)
 - d) Option (i)
4. IP addresses of two computers on a network: [1]

- a) are not defined
- b) can be the same
- c) cannot be the same
- d) must match with a third computer

5. Who is the founder of Facebook? [1]

- a) Mark Zuckerberg
- b) Sir Tim Berners-Lee
- c) Jack Dorsey
- d) Javed Karim

6. Identify which of the following type of list will create a bulleted list. [1]

- a) Numbered
- b) Unordered
- c) Ordered
- d) Definition

7. Which of the following are contained in an HTML document? [1]

- a) All of these
- b) Plain text
- c) Tags
- d) Attribute

8. Which of the following is a way to associate styles with your HTML document? [1]

- a) Imported CSS - @import Rule
- b) External CSS - The Element
- c) Both External CSS - The Element and Imported CSS - @import Rule
- d) Imported CSS - @import Rule

9. _____ is the default color of a hyperlink. [1]

- a) Blue
- b) Green
- c) Red
- d) Black

10. Which tag is used to insert an image in Web page? [1]

- a) <A>
- b) <TABLE>
- c) <P>
- d)

11. **Assertion (A):** Border-style property specifies whether a border should be solid, dashed line, double line, or one of the other possible values. [1]

Reasons (R): The margin property specifies the space around elements.

a) Both A and R are true and R is the correct explanation of A.

b) Both A and R are true but R is not the correct explanation of A.

c) A is true but R is false.

d) A is false but R is true.

12. **Assertion (A):** Different style elements can be used to define styles for different HTML tags. [1]

Reason (R): The border-color property is used to specify the background colour of an HTML tag. It can be used with any HTML element to specify its background colour.

a) Both A and R are true and R is the correct explanation of A.

b) Both A and R are true but R is not the correct explanation of A.

c) A is true but R is false.

d) A is false but R is true.

Section B

13. Give any two examples of popular search engines. [2]

14. Explain the two elements using which search engine works. [2]

OR

Which term refers to the companies that provides internet connection to the users?

15. How will you create an e-mail link? [2]

16. Using copyright, software piracy can be stopped. How? [2]

OR

Define the example of Consumer-to-Consumer E-Commerce.

17. Discuss the use of the background-color property. [2]

18. List and define different types of paragraph alignments. [2]

OR

Give two examples of container elements of Structural Category.

19. What do you understand by controls in forms? [2]

Section C

20. What is the digital divide? Write any two reasons for digital divide in India. [3]

21. Explain Telnet with its advantage. [3]

22. Write an HTML code to create a password field. [3]

OR

Discuss a few advantages of CSS.

23. What can you do to avoid plagiarism? Write any three points. [3]

Section D

24. Sharda, a beginner in web page designing, is supposed to design a web page to promote yoga among students as shown below: [4]



Yoga: The best way to health and fitness!

Yoga is a discipline and meditation which needs to be practiced physically, mentally, and spiritually. It was originated in the ancient India. It positively affect you both physically and mentally and creates perfect harmony among your mind, body and soul.

Contact Us

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 and all the hyperlinked text should be red in colour.
- Image named yoga.jpg should be placed in the center of the webpage.
- Heading " Yoga: The best way to health and fitness!" should be first level of the heading,
- Paragraph should have following formatting styles applicable. Colour-Blue Size-5 Font Style-Times New Roman
- At the bottom of the page, "Contact Us" text should be linked with admin@yoga.com email id.

OR

What is the use of <tr> tag in an HTML table? Give a suitable example.

Section E

25. Read the text carefully and answer the questions: [4]

HTML stands for HyperText Markup Language. It is used to design web pages using a markup language. HTML is the combination of Hypertext and Markup language. Hypertext defines the link between the web pages. A markup language is used to define the text document within tag which defines the structures of web pages. This

language is used to annotate (make notes for the computer) text so that a machine can understand it and manipulate text accordingly. Most markup language (e.g., HTML) are human-readable. The language uses tags to define what manipulation has to be done on the text.

HTML is a markup language used by the browser to manipulate text, images, and other content, in order to display it in the required format. HTML was created by Tim Berners-Lee in 1991. The first-ever version of HTML was HTML 1.0, but the first standard version was HTML 2.0, published in 1999.

- (i) What are void elements? Give an example.
- (ii) What is the method of viewing the source code of the current page in the web browser?
- (iii) While writing HTML code, how do you find out how your Web page would look like?
- (iv) Write one basic difference between bgcolor and background attributes.

26. Read the text carefully and answer the questions:

[4]

Anjali is a faculty in a well known IT college where she teaches Network Engineering. Today's lecture is on protocols.

- (i) Poonam, a student in Anjali's class wants to know that what does **S** stand for in HTTPS?
- (ii) Anjali is downloading an image from the internet. Which protocol is being used?
- (iii) _____ protocol establishes communication between browser and the web server.
- (iv) Kavita, a student in her class wants to know the full form of POP.

Solutions

Section A

1. (a) Digital property

Explanation: Digital property

2. (a) all of these

Explanation: all of these

3.

- (c) Option (ii)

Explanation: Bullying a classmate in the school corridor.

4.

- (c) cannot be the same

Explanation: cannot be the same

5. (a) Mark Zuckerberg

Explanation: Mark Zuckerberg

6.

- (b) Unordered

Explanation: The unordered list is also known as bulleted list and is created by using tag. The TYPE attribute of tag sets the type of bullet. The values of TYPE attribute are: circle, disc and square.

7.

- (c) Tags

Explanation: Tags

8.

- (c) Both External CSS - The Element and Imported CSS - @import Rule

Explanation: Both External CSS - The Element and Imported CSS - @import Rule

9. (a) Blue

Explanation: Blue

10.

- (d)

Explanation: tag is used to insert an inline image in a Web page.

11.

- (b) Both A and R are true but R is not the correct explanation of A.

Explanation: Both A and R are true but R is not the correct explanation of A.

12.

- (c) A is true but R is false.

Explanation: A is true but R is false.

Section B

13. i. Google
ii. Yahoo

14. Search engine works with two elements, which are as follows:

- i. **Web Crawler:** It is a software that browses the internet in a systematic manner, it retrieves the information, which follows every link on the site that are stored by web search engine. It is also known as spider, ant, automatic indexer or web scutter.
- ii. **Indexing Software:** It is a software that receives the list of web documents and addresses collected by web crawler. Some search engines provide proximity search which allows users to define the distance keywords.

OR

ISP (Internet Service Provider)

15. An e-mail link can be created on a web page. The browser reads this link using the value starting with "mailto:" rather than http.//with an e-mail address rather than a web address.

Syntax: E-mail the user name .

16. The copyright in the work of authorship immediately becomes the property of the author, who created the work. Only the author or those deriving their rights through the author, can rightfully claim copyright.

OR

E-Bay is the most successful C2C (Consumer-to-Consumer) online auction website.

17. The background-color property is used to specify the background colour of an HTML tag. It can be used with any HTML element to specify its background colour.

18. **Left:** It is used for left align text <p align="left">...</p>

Right: It is used to right align text <p align= "right">...</p>

Center: It is used for center align text <p align="center">...</p>

OR

<Head>----</Head>

<body>----</body>

19. Users interact with forms through named controls. A control's "control name" is given by its name attribute. Each control has both an initial value and a current value, both of which are character strings.

Section C

20. Digital divide refers to the differing amount of information between those who have access to ICT and those who don't have access.

Reasons:

- i. Due to the unequal distribution of wealth, poverty is higher in rural areas.
- ii. Less literacy rate in rural India.

21. Telnet is a network protocol which allows the user to get connected to other hosts via remote login. Telnet remote login is widely used for file sharing.

One can then easily browse the host's machine and can download or upload files from/to the host. It works on a standard port number 23.

Telnet allows the user to get access to any remote host machine through remote login. Using this protocol, one can access the remote computer as his/her own computer. The main advantage of using Telnet is that the user can make changes related to system which is not possible in any other method. All type of resources can be shared.

```
22. <html>
    <head>
    <title> Password Field </Title>
    </head>
    <body>
    <form>
    User Id : <input type="text" name="userid"/>
    <br><br>
    Password<input type="password" name = "pswrd" value="password"/>
    </form>
    </body>
    </html>
```

OR

The advantages of CSS are as follows:

- i. **CSS Saves Time to Develop Web Pages:** CSS allows us to specify the formatting styles for different HTML tags only once. These styles will be applied to all the tags of a single web page or same style sheets can even be linked to several web pages. Thus, CSS helps in saving a lot of time as the web developers do not need to write the same formatting code again and again. They can make a style sheet once and can link it to as many web pages as they want.
- ii. **CSS Uses Less Bandwidth:** CSS makes HTML web pages lighter as styles are mentioned in separate files, and one file can be linked to many web pages. Thus, CSS helps in reducing the bandwidth usage.
- iii. **CSS Makes Downloading the Web Pages/ Websites Faster:** Since, CSS result in specifying or writing the smaller code for HTML pages, so lighter web pages/websites download faster than the heavier ones.

23. To avoid Plagiarism one should follow these guidelines:

- i. Give credit to the creator if someone's original or intellectual work is used.
- ii. Use quotation marks for another person's actual spoken or written words.
- iii. Take the permission of the author or owner wherever required.

Section D

```
24. <HTML>
    <BODY BGCOLOR="YELLOW" LINK="RED">
    <CENTER><IMG SRC="yoga.jpg"><BR>
    <H1>Yoga: The best way to health and fitness!</H1>
```

</CENTER>

<P>

Yoga is a discipline and meditation which needs to be practiced physically, mentally, and spiritually. It was originated in the ancient India.

It positively affect you both physically and mentally and creates

perfect harmony among your mind, body and soul.</P>

Contact Us

</BODY>

</HTML>

OR

The <tr> tag creates a table row in an HTML table. A table must have at least one row and also, it can have as many table rows as you want. A table row is divided into table cells. A table must have at least one table cell per table row.

For example:

<HTML>

<HEAD>

<TITLE> TR Tag </TITLE>

</HEAD>

<BODY>

<TABLE BORDER = "1" CELLPADDING = "3">

<TR>

<TH> Head 1 </TH>

<TH> Head 2 </TH>

<TH> Head 3 </TH>

</TR>

<TR>

<TD> A </TD>

<TD> B </TD>

<TD> C </TD>

</TR>

<TR>

<TD> D </TD>

<TD> E </TD>

<TD> F </TD>

</TR>

</TABLE>

</BODY>

</HTML>

Output:

Head 1	Head 2	Head 3
A	B	C
D	E	F

Section E**25. Read the text carefully and answer the questions:**

HTML stands for HyperText Markup Language. It is used to design web pages using a markup language. HTML is the combination of Hypertext and Markup language. Hypertext defines the link between the web pages. A markup language is used to define the text document within tag which defines the structures of web pages. This language is used to annotate (make notes for the computer) text so that a machine can understand it and manipulate text accordingly. Most markup language (e.g., HTML) are human-readable. The language uses tags to define what manipulation has to be done on the text.

HTML is a markup language used by the browser to manipulate text, images, and other content, in order to display it in the required format. HTML was created by Tim Berners-Lee in 1991. The first-ever version of HTML was HTML 1.0, but the first standard version was HTML 2.0, published in 1999.

- (i) Elements that do not contain content and so do not have a closing tag, e.g., `<input>`, `<br>`.
- (ii) Right-click on the web page and then select View Source from the context menu.
- (iii) For this, open the HTML code file in a Web browser (e.g., Firefox or Chrome).
- (iv) The `bgcolor` attribute is used for colouring the background of the document while the `background` attribute specifies a background image for a document.

26. Read the text carefully and answer the questions:

Anjali is a faculty in a well known IT college where she teaches Network Engineering. Today's lecture is on protocols.

- (i) The full form of HTTPS is Hypertext Transfer Protocol Secure. HTTPS works with SSL (secure sockets layer) and ensures the safety of text/information being transferred on www.
- (ii) FTP (File Transfer Protocol) is used for transferring files from one system to the other.
- (iii) 1. HTTP
- (iv) POP is a standard mail protocol used to receive emails from a remote server to a local email client.