Sample Question Paper - 4
Computer Applications (Code 165)
Class: X Session: 2023-24

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

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 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.

Section A

1. What are computer ethics?   **[1]**

   a) An honest moral code that should be followed when on the computer.

   b) A list of commandments in the Bible.

   c) A computer program about honesty.

   d) A computer that fits on or under a desk.

2. Which of the following are the person to group services located under communication services of the Internet?   **[1]**

   a) Chat service

   b) None of these

   c) Email service

   d) Both email service and chat service

3. The process of converting the original representation of the information (plaintext), into an alternative form (ciphertext) is known as: **[1]**

   a) Phishing

   b) Encryption

   c) Decryption

   d) Plagiarism

4. In HTTPS, S means: **[1]**

a) Software

b) Socket

c) Secure

d) Secret

5. The website of a school which allows the students to go through various lessons in their subjects is an example of: **[1]**

    a) e-Business

    b) e-Mail

    c) e-Learning

    d) e-Governance

6. Which of the following is not the attribute of <A> tag? **[1]**

    a) SRC

    b) TITLE

    c) NAME

    d) HREF

7. How is a tag enclosed? **[1]**

    a) [ ]

    b) { }

    c) ( )

    d) < >

8. The CSS property used to set the distance between the borders of the adjacent cells in the table is: **[1]**

    a) border-spacing

    b) border-radius

    c) None of these

    d) border-collapse

9. _____ attribute of the <A> tag is used to name a section in a Web page to create an internal link. **[1]**

    a) LINK

    b) NAME

    c) ALIGN

    d) HREF

10. alt attribute allows **[1]**

    a) addition of alternate text about an image

    b) use of an alternate image in place of the specified image

    c) addition of a border to image

    d) addition of an alternate hyperlink

11. **Assertion (A):** WYSIWYG (What You See is What You Get) editors allow you to create [1] web pages without writing HTML commands/tags.
Reason (R): The terms Tags and Elements both refer to the different context and cannot be used interchangeably.

    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):** In HTML, both <HTML> and <html> are the same. [1]
Reason (R): HTML tags are not case sensitive.

    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. Web surfing is not possible without a search engine. Mention the uses of Search Engine. [2]

14. Differentiate between LAN and WAN. [2]

OR

What is Web Hosting?

15. What is the use of the href attribute of the <A> tag? Give an example. [2]

16. Govind wants to use a software but does not want to pay for it. Which type of software can he use? [2]

OR

What is e-commerce? Write any two preventive measures to be taken for secure online transaction.

17. Name the components of CSS style? [2]

18. How is <OL> tag different from <UL> tag of HTML? [2]

OR

Gaurav, a Web designer in a company named **International Designers** has just created a Web page in which different sections of the Web page are linked and can be traversed by clicking on the text given as **Top**, **Middle** and **Bottom**. Is the internal linking or external linking and why? Additionally tell him about the suitable tag and its attribute (s) to open another Web page named **second.html** by clicking on the text **Next**.
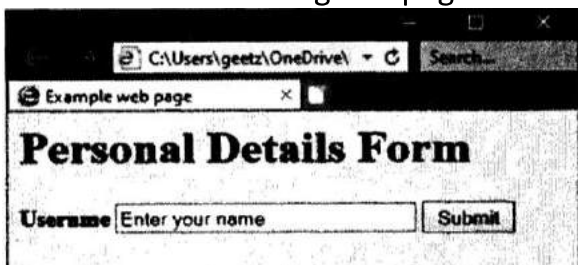
19. Name the attributes of <SELECT> tag which are used to create drop-down menus. **[2]**

Section C

20. What do you understand by the term secure data transmission? Mention any two main points to ensure secure data transmission in e-commerce. **[3]**

21. When Kiran uses Gmail, two protocols SMTP and POP are used. Differentiate between both the protocols. **[3]**

22. Compare HTML and CSS. **[3]**

OR

Consider the following webpage and write a code according to given instructions:

   i. The background colour is yellow.

   ii. The heading "Personal Details Form" is of 30 point size.

   iii. The program that recieves the filled in detalis is 'personal-html'.

23. Mention any three advantages of intellectual property rights. **[3]**

Section D

24. Write HTML code to illustrate **[4]**

   i. Listed hyperlinks

   ii. Image hyperlinks

OR

What is the difference between inline, internal and external style sheets?

Section E

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

HTML Forms: These forms are very effective because they can easily collect data from the Internet and utilise that information in other web page. Form starts with

the <FORM> tag and ends with the </FORM> tag. It contains various attributes which are as follows:

It contains various attributes which are as follows:

 i. **Name:** It specifies the name of the form. The name attribute is optional if there is only one form on the web page.

 ii. **Action:** It provides the URL of the program (in the server) that receives the information from the form and processes it.

iii. **Method:** This attribute is the HTTP method used to submit the form data.

The method attribute of <FORM> tag can take one of the following three values:

 i. **GET** method sends the information to the server.

 ii. **POST** method sends the form information in the HTTP environment.

iii. **Form** method opens a new form as per the URL specified in the action attribute.

So, a typical <FORM> tag is,

<FORM name = "form_name" action ="URL" method = "method">

(i)   Which method on a web page allows a user to enter data.

(ii)   What is the full form of URL?

(iii)   Name some tag used in the <FORM>?

(iv)   Which provide URL of a program to receive the information from the form?

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

Mr. Manish, 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.

(i)   Mr. Manish 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?

(ii)   Mr. Vikas sends an email to Manish requesting him to prepare the balance sheet. Which network protocol is involved during this email communication?

(iii)   The company's financial head needs to send some high security documents to Mr. Manish. He uses an application which supports the _____ protocol.

(iv)   In order to gather some information on latest accounting trends, Mr. Manish has to do some research. He can do this by locating sites online using a _____.

Solutions

Section A

1. **(a)** An honest moral code that should be followed when on the computer.
   Explanation: An honest moral code that should be followed when on the computer.

2.
   (b) None of these
   Explanation: None of these

3.
   (b) Encryption
   Explanation: Encryption

4.
   (c) Secure
   Explanation: Secure

5.
   (c) e-Learning
   Explanation: e-Learning

6.
   (b) TITLE
   Explanation: TITLE is not the attribute of <A> tag.

7.
   (d) < >
   Explanation: < >

8. **(a)** border-spacing
   Explanation: border-spacing

9.
   (b) NAME
   Explanation: NAME

10. **(a)** addition of alternate text about an image
    Explanation: alt attribute allows addition of alternate text about an image.

11.
    (c) A is true but R is false.
    Explanation: A is true but R is false.

12. **(a)** Both A and R are true and R is the correct explanation of A.
    Explanation: Both A and R are true and R is the correct explanation of A.

Section B

13. The main purpose of search engine is to find information on any topic from the web.

14.

LAN	WAN
Diameter of less than a few kms	Span entire country

Owned by a private organisation	Owned by multiple organisations
High speed	Lower speed (< 1 Mbps)
Very low error rates	High error rates
Costly	Cheap

OR

A web hosting service is a type of Internet hosting service that allows individuals and organizations to make their website accessible via the World Wide Web.

Web hosts are companies that provide space on a server, owned or leased, for use by clients, as well as providing internet connectivity, typically in a data center.

There are 4 major types of web hosting:

a. Free hosting

b. Virtual or Shared hosting

c. Dedicated hosting

d. Colocation hosting

15. The href (hypertext reference) attribute of the <A> tag is used to set the URL of the target resource, which is the address of the document to link to. The href attribute of the anchor tag specifies the destination page or file.

For example: <A HREF = "Filename.html">Next Page </ A>

16. Open-source software can be used.

OR

E-commerce: Buying and selling of goods on the internet is called e-commerce.

Two preventive measures for secure online transaction are as follows:

i. Never share OTP with anyone.

ii. Before making an online payment, ensure that connection is secure (HTTPS).

17. The components of CSS style are:

i. Selector

ii. Property

iii. Value

18. <OL> stands for ordered list. This tag is used to display an ordered/a numbered list.

<UL> stands for unordered list. This tag is used to display a bulleted list.

OR

It is internal linking because links pages are within a single website, various sections of same document or different document.

To open another web page, user will be need to use external linking with <A> tag and href attribute.

Suitable code to open web page named 'Second.html':

<A href="second.html"> Next </A>

19. There are various attributes of <SELECT> tag

Attribute	Use	Syntax
name	It shows the name of drop-down	<SELECT name ="name">
size	It displays height of the list. If it is 1 (or omitted), the list is a drop-down menu, otherwise it is a scrolled list.	<SELECT size ="value">
disabled	This attribute specifies that a drop-down list should be disabled.	<SELECT disable>

Section C

20. Secure data transmission refers to the protection of data during its transfer from one location to another, ensuring confidentiality and integrity. Two main points to ensure secure data transmission in e-commerce are implementing encryption technologies like SSL/TLS and using secure communication protocols like HTTPS, which encrypt and authenticate the data exchanged between the client and the server.

21.

SMTP	POP
SMTP stands for Simple Mail Transfer Protocol.	POP stands for Post Offce Protocol.
SMTP is used in sending outgoing emails by pushing the message from client to server.	POP allows to retrieve and organize mails from the mail box on receiver's mail server to receiver's computer.
It is used for sending the message to the receiver.	It is used for accessing message from mail box.

22. HTML and CSS are not really different from each other, rather CSS is an extension of HTML. CSS enhances basic HTML tags and attributes and improves the presentation of the web pages. HTML pages contain HTML tags and different styles can be specified for these tags using CSS. A single CSS file can be linked to many web pages. All web pages will import the styles of the style sheet. Thus, we can say that HTML contains basic tags to create web pages, whereas CSS is an extension to HTML as it only specifies the formatting and appearance styles for these web pages.

OR

code:

```
<html>
<head>
<title>Example web page</title>
</head>
<body bgcolor=yellow>
<h1>Personal Details Form</h1>
<form action="personal.html" method="get">
```

```
<b>Username</b>
<input type = "text" name = "account
holder name" value= "Enter your name" size= "30">
<button type="button">submit</button>
</form>
</body>
</html>
```

23. Advantages of intellectual property rights are as follows:
    i. Encourages individuals to distribute and share information and data instead of keeping it confidential.
    ii. Provides legal defense and offers the creators the incentive of their work.
    iii. Provides exclusive rights to the creators or inventors.

Section D

24. i. **Listed hyperlinks:** It is noticeable that <A> tag can also be used for more complex task (as with images or with lists etc.)
    For example: To show listed hyperlinks.

```
<HTML>
<HEAD> <title> List </TITLE> </HEAD>
<BODY> <H1>List </H1>
<UL>
<LI> <A HREF="linkl.html">
<IMG SRC ="F: Fruits-wallpaper-91 jpg" ALIGN="middle" HEIGHT="75" WIDTH="75">
Fruit Chart </A></LI><BR><BR>
<LI> <A HREF= "link2.html">
<IMG SRC="F:\vegetable jpg" ALIGN="middle" WIDTH="75" HEIGHT="75">
Vegetable Chart </A> </LI > </ul>
</BODY>
</HTML>
```

ii. **Image hyperlinks:** Images can also be used as hyperlinks. To create image as a link, following syntax is used:
    `<A HREF = "URL"> <IMG SRC="image1.jpg"> </A>`
    For example: To show image as link.

```
<HTML>
<HEAD>
<TITLE>lmage as Link</TITLE>
</HEAD>
<BODY>
<A HREF = "http://en.wikipedia.org/wiki/Tweety">
<IMG SRC= "D:\Class 10\Computer\tweety1.jpg"></A>
```

```
</BODY>
</HTML>
```

OR

Inline style sheets	Internal Style Sheets	External Style Sheets
The inline CSS can be used to define unique CSS to an element in the HTML page.	The internal CSS can be used to define unique CSS to a single HTML page.	The idea of external CSS is to change the CSS of multiple files by making a change in only one file.
The style attribute is added to the element.	CSS is written inside the HTML file only. The style tag is placed between the head tag.	The styles are written in an external file that is linked to the HTML files using proper syntax. The external CSS file should have a .css extension. These external files are linked with HTML documents using tag in the head of the HTML file.
eg.\<p style= "color: blue; font-size: 15px">This is inline CSS</p>	eg. \<html> \<head> \<style type="text/css"> p{font-family: arial; margin-left: 50px} body {background-color:yellow} \</style> \</head> \<body> \ This is an internal style \<\body> \</html>	eg. \<head> \<link re1="style sheet" type="text/css" href="style01.css"> \</head>

Section E

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

    HTML Forms: These forms are very effective because they can easily collect data from the Internet and utilise that information in other web page. Form starts with the <FORM> tag and ends with the </FORM> tag. It contains various attributes which are as follows:

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So, a typical <FORM> tag is,

<FORM name = "form_name" action ="URL" method = "method">

(i) Form

(ii) The full form of URL is Uniform Resource Locator.

(iii) <INPUT>, <SELECT>, <OPTION> tag can be used in <FORM>.

(iv) Action provide URL of a program to receive the information from the form.

26. **Read the text carefully and answer the questions:**

Mr. Manish, 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.

(i) Mr. Manish can use video conferencing service with the help of which he can interact as well as see them. Video conferencing can be possible through application like Skype, Zoom, etc.

(ii) SMTP(Simple Mail Transfer Protocol) and POP (Post Office Protocol) are involved during an email communication.

(iii) 1. SSH

2. Secure Shell

(iv) 1. search engine

2. web browser