

Sample Question Paper - 5
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. Netiquette is short for [1]
 - a) Internet etiquette
 - b) Both Etiquette and Internet etiquette
 - c) Social etiquette
 - d) Etiquette
2. Which of the following sites, would you prefer to find an old classmate? [1]
 - a) www.amazon.com
 - b) www.gmail.com
 - c) www.facebook.com
 - d) www.twitter.com
3. Which of the following techniques can be used for security of data? [1]
 - a) Authorisation
 - b) Authentication
 - c) Encryption
 - d) All of these
4. Which is the process of transferring files from a computer on the Internet to your computer called? [1]
 - a) Uploading
 - b) FTP
 - c) Forwarding
 - d) Downloading

5. The computer or server on the internet is also known as: [1]
a) Host b) Client
c) Browser d) PC
6. Where do you place the <TITLE> tag in an HTML document? [1]
a) TITLE b) HEAD
c) BODY d) FONT
7. _____ tag is a mandatory tag that defines the document as an HTML file. [1]
a) None of these b) <HEAD> tag
c) <TITLE> tag d) <HTML> tag
8. Which of the following selector matches a element based on its id? [1]
a) The Id Selector b) The Class Selector
c) The Universal Selector d) The Descendant Selector
9. Which of the following does the work of connecting the web pages? [1]
a) List b) Connector
c) Hyperlink d) None of these
10. Romal, a chemical analyst is designing a web page of the company, which may contain the chemical formula of water H₂O. Which tag should she use to display 2 little bits below the normal line? [1]
a) <sub> b) No tag is available in HTML for it
c) <subscript> d) <lower>
11. **Assertion (A):** Same CSS file can be used on multiple web pages. [1]
Reason (R): CSS stands for Cascading Style Sheet
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, Tags written in lowercase letters or uppercase letters are treated as the same. [1]

Reason (R): HTML is a case-sensitive language.

- 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. What do you understand by Pinterest? [2]

14. What is IoT? [2]

OR

What is a post?

15. Explain the need of linking between web pages. [2]

16. What is open source software? [2]

OR

Write the full form of SET protocol.

17. Write any two differences between the outline and border-style properties of CSS? [2]

18. Write the full form of: [2]

- i. <HR>
ii. <A>
iii.
iv. <P>

OR

What is the use of the <VLINK> attribute?

19. Write the syntax of <INPUT> tag. [2]

Section C

20. What a short note on cyber crime. [3]

21. Answer the following questions: [3]

- i. What is FTP?
ii. On which model does it work?
iii. Mention its user.

22. Form a CSS code within the <HEAD> </HEAD> for the following specifications: [3]
- Background colour: blue.
 - For the paragraph, font family is Dotum and colour of the text is red.
 - Heading should be in black colour.

OR

Discuss the inline style sheets in detail.

23. What do you mean by privacy in E-commerce? [3]

Section D

24. Create a simple web page on **Different types of rocks**. Set suitable properties for the text. Draw a horizontal line after each paragraph. Use inline style to set the properties. [4]

OR

Write the HTML code for the following output:



Note The following points while generating the Web page:

- Title of the page should be **Dubai Tourism**.
- The heading text **WELCOME TO DUBAI** is in arial font and is of maroon color.
- The horizontal lines below the heading are 5 pixels thick and of red color.
- Image used in the page is burj.jpg.
- The bulleted list contains links as specified below:
 - The text Morning is a link to the Web page **morning. html**
 - The text Evening is a link to the Web page **evening. html**

Section E

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

Embed Audio Element: The HTML <AUDIO> element is used to embed sound content in documents. It may contain one or more audio sources, represented using the SRC attribute. The <AUDIO> element defines an in-browser audio player. The audio player can provide a single piece of audio content. To specify the source file of

the audio content, use one or more <SOURCE> elements inside the <AUDIO> element. All <SOURCE> files should contain the same audio content but in different file formats. The browser will select the first file format that it is able to play. If you are not going to provide multiple source file formats, you may indicate the source file in the SRC attribute, instead of in a separate <SOURCE> element.

- (i) Define audio tag.
- (ii) <AUDIO> tag is used under which tag?
- (iii) Which attribute specifies the location of the audio file?
- (iv) Name the attributes of <SOURCE> tag.

26. Read the text carefully and answer the questions:

[4]

Bidya is a nurse in XYZ hospital. Owing to the emergency situation due to COVID-19, she needs to communicate in almost real-time with the Medical Superintendent about the status of the patients. The hospital has provided her a laptop, web camera and other accessories for communication purposes.

- (i) As instructed by the Medical Superintendent, Bidya has to send the RT-PCR reports of some patients who have tested negative to their respective family members using her laptop. Which web service should she avail?
- (ii) Bidya wants to establish a connection with the remote computer of pathology lab in the city, so that she can see the RT-PCR reports of her patients. Which protocol will be used for the same?
- (iii) Bidya has also been instructed by the Medical Superintendent to upload the RT-PCR reports in the Hospital's Data Server. Which Internet protocol shall be used during this process of uploading the reports into the Hospitals Server?
- (iv) The Medical Superintendent has asked Bidya to inform about the billing and payment details of the admitted patients. Bidya needs to securely access the details from the Hospitals server using her Admin Login Credentials. Which secured network protocol is she using to access the account details for the patients?

Solutions

Section A

1. (a) Internet etiquette

Explanation: Netiquette is short for Internet etiquette. Etiquette is a code of polite behaviour in society, Netiquette is a code of good behaviour on the Internet.

2.

- (c) www.facebook.com

Explanation: Facebook is a popular social networking site that is mainly used to connect with friends and relatives.

3.

- (d) All of these

Explanation: All of these

4.

- (d) Downloading

Explanation: Downloading

5. (a) Host

Explanation: Host

6.

- (b) HEAD

Explanation: HEAD

7.

- (d) <HTML> tag

Explanation: <HTML> tag

8. (a) The Id Selector

Explanation: The Id Selector

9.

- (c) Hyperlink

Explanation: Hyperlink

10. (a)

<sub>

Explanation:

<sub>

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.

- (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.

Section B

13. Pinterest is a free pinboard-style photo-sharing site and application where users can create and manage theme-based image collection like interests, hobbies and recipes, etc.

14. IoT or Internet of Things is a term broadly used to refer to anything connected to the internet. Fitness trackers, smart fire alarms, smart door locks smart watches and voice controller devices like Alexa and Siri are examples of IoT.

OR

The entries or information in the blogs are known as posts.

15. Linking between different web pages is required, as when we create websites, different html files (web pages) are created. These files contain different modules and cannot be open individually. If we link between them, the website becomes more productive and informative.
16. Open source software is a software that any programmer can download from the internet free and modify with suggested improvements. The changes must be made available to all. Any programmer can make improvements, which can result in better quality software
Ex: Firefox web browser, Linux OS etc.

OR

SET (Secure Electronic Transaction) is a system for ensuring the security of financial transactions on the Internet.

17. Differences between the outline and border-style properties of CSS are:
- Outlines do not take up space, because they are always placed on top of the box of the element which may cause them to overlap other elements on the page.
 - Unlike border-style, outlines won't allow us to set each edge to a different width, or set different colors and styles for each edge. The outline is the same on all sides.
 - Outlines do not have any impact on surrounding elements apart from overlapping.
 - Unlike border-style, outlines do not change the size or position of the element.
 - The CSS border properties allow you to specify the style and color of an elements border. An outline is a line that is drawn around elements (outside the borders) to make the elements.
18. i. Horizontal Rule tag
ii. Anchor tag
iii. Image tag
iv. Paragraph tag

OR

VLINK stands for visited link. This attribute changes the default colour of the visited link.

For example:

```
<BODY VLink = "YELLOW">
```

```
<A TITLE = Tulips HREF = "C:\Users\Public\Pictures\Sample Pictures\Tulips.jpg"> Click to open Tulips image </A>
```

```
</BODY>
```

19. `<INPUT type = "fieldtype" name = "fieldname" value = "fieldtext">`

Section C

20. **Cyber Crime:** Cyber crime is that crime which is done through internet. The Cyber Act 2000, was now enforced by Indian government to punish the cyber criminals.
The points of Cyber Act, 2000 are as follows:
- The documents transferred through internet are legally valid and can be produced in court of law.
 - The digital signatures are described on authentic documents.
 - Cyber crime is defined and provision of giving punishment to the cyber criminals.
 - A plan is made to investigate the cyber crime and to take action on the criminal activities in cyber field.
21. i. FTP is a Standard Internet Protocol for transmitting files among the computers on the Internet.
ii. FTP works on the Client and Server model where client and server act as two communication channels
- a command channel for controlling the conversation and a data channel for transmitting file content.

iii. The uses of FTP are:

- a. It is used to perform basic file operations such as uploading, downloading, deleting, renaming, moving and copying files from the client side to the server side.
- b. It is a client server protocol in which clients initiate conversations with servers by requesting to download a file.

22. <HEAD>

<STYLE>

BODY {background-color: blue;}

P{color:red; font-family:Dotum;

}

H1{color:black;}

</STYLE>

</HEAD>

OR

Inline Style Sheet: We can even define a style rule for a single tag in the HTML page itself. This is known as defining an inline style. This is used to apply a unique style to a single tag. To define an inline style, the STYLE attribute is inserted in the specific tag for which we want to define the style. The style attribute can contain any CSS property and value.

Syntax of inline style sheet into an HTML page:

<TAG STYLE = "...style rules...">

23. The term privacy refers to the protection of personal information given online. In e-commerce it is related to company's policies. It refers to the privacy of the parties involved in trading through e-commerce. The information related to transactions, credit card, addresses etc are exchanged online and without consumer consent this information is not shared with anyone.

Section D

24. i. Open Notepad and type the following HTML code. You will observe that each paragraph follows a different style of formatting

```
<!DOCTYPE html>
```

```
<html> <head>
```

```
<title>Types of Rocks</title>
```

```
</head>
```

```
<body>
```

```
<h1>Different Type of Rocks</h1>
```

```
<h2>Igneous Rocks</h2>
```

```
<p style= "font-size: xx-large; color: maroon; text-align: centre; border: solid 4px 4px  
blue;">
```

The earth's core is made up of molten rock. when a volcano erupts this molten rock flown out. It later cools and solidifies to forb igneous rock. These rocks contain minerals like mica and magnesium Granitem pumica and obsidian are example of Igneous rocks.</p>

```
<hr style= "margin-left: 200px; margin-right:
```

```
100px; border-width: thick; border-style:
```

```
double; color: blue;>
```

```
<h2>Sedimentary Rocks</h2>
```

```
<p style= "font-size: x-large; color: green; text-align:right; border: dashed 3px orange">
```

Rain, wind, rivers flowing down mountains, etc., wear down rocks on mountains

and carry small bits of them down to deposit elsewhere. Repeated deposition presence down the lower layers and hardens them into rock. Such rocks are called sedimentary rocks. Sandstone, Limestone

and Shale are some of the examples of sedimentary rocks. </p>

<hr style= "border: 4px groove yellow ">

<h2>Metamorphic Rocks</h2>

<p style="font-size: medium; color: navy;
text-align: left; border: groove 4px Pink">

Metamorphic rocks are rocks that may be formed due to physical and chemical changes in igneous, sedimentary or older metamorphic rocks. These changes happen due to heat and pressure. Marble, slate, Quartzite are some examples of Metamorphic rocks.</p>

</body>

</html>

ii. Save the document as example.html

iii. Open Internet Explorer and then open the document example.html in it.

OR

The HTML code is

<HTML>

<HEAD>

<TITLE>Dubai Tourism</TITLE>

</HEAD>

<BODY>

<CENTER>

<H1>

WELCOME TO DUBAI

</H1>

</CENTER>

<HR width=80% size="5" color="red" noshade>

<HR width=60% size="5" color="red" noshade>

<P>Enjoy the world of pure travel masti </P>

</BR>

The following is alist of major tourist attractions in Dubai:

<UL type="disc">

Morning

-Dolphinarium and Palm Dubai

Evening

-Ski Dubai and Cruise

<CENTER>

For enquires write at dubai@gmail.com

</CENTER>

</BODY>

</HTML>

Section E

25. Read the text carefully and answer the questions:

Embed Audio Element: The HTML <AUDIO> element is used to embed sound content in documents. It may contain one or more audio sources, represented using the SRC attribute. The <AUDIO> element defines an in-browser audio player. The audio player can provide a single piece of audio content. To specify the source file of the audio content, use one or more <SOURCE> elements inside the <AUDIO> element. All <SOURCE> files should contain the same audio content but in different file formats. The browser will select the first file format that it is able to play. If you are not going to provide multiple source file formats, you may indicate the source file in the SRC attribute, instead of in a separate <SOURCE> element.

- (i) The <audio> tag is used to embed sound content in a document, such as music or other audio streams. The <audio> tag contains one or more <source> tags with different audio sources. The browser will choose the first source it supports.
- (ii) <AUDIO> tag is used under <BODY> tag.
- (iii) SRC attribute.
- (iv) SRC and TYPE are the attributes of <SOURCE> tag.

26. Read the text carefully and answer the questions:

Bidya is a nurse in XYZ hospital. Owing to the emergency situation due to COVID-19, she needs to communicate in almost real-time with the Medical Superintendent about the status of the patients. The hospital has provided her a laptop, web camera and other accessories for communication purposes.

- (i) E-mail or electronic mail
- (ii) SSH/TELNET/PPP
- (iii) FTP or File Transfer Protocol or SFTP
- (iv) SSH or Secured Shell