

## SAMPLE QUESTION PAPER - 2

### Computer Applications (165)

### Class X (2024-25)

**Time Allowed: 2 hours**

**Maximum Marks: 50**

#### General Instructions:

1. This Question Paper has 5 Sections A-E.
2. All Questions are compulsory. However, an internal choice of approximately 30% is provided.
3. Section A has 12 questions carrying 01 mark each.
4. Section B has 7 Very Short Answer (VSA) type questions carrying 02 marks each.
5. Section C has 4 Short Answer (SA) 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. \_\_\_\_\_ is an essential part of any electronic transaction that takes place over the Internet. [1]  
a) Networking  
b) Communication  
c) Security  
d) Password
2. In most of the working areas video conferencing is used, but the scenario where it cannot be used is: [1]  
a) Education  
b) Telemedicine  
c) Businesses meeting customers  
d) Cleaning a locality
3. Name the activity of electronically buying or selling of products on online services or over the Internet. [1]  
a) E-Commerce  
b) Electric commerce  
c) Cyber Commerce  
d) Internet business
4. The protocol that is used to send e-mails is \_\_\_\_\_. [1]



- a)SMTP  
c)FTP
- b)POP  
d)HTTP

5. A type of technique in which dumb terminals are connected to a central computer system: [1]
- a)Batch environment  
c)Time Sharing
- b)Message passing  
d)User environment
6. Which of the following tag specifies an input field? [1]
- a)<OUTPUT>  
c)<HEAD>
- b)<TITLE>  
d)<INPUT>
7. Which of the following tag is used to create drop-down menus? [1]
- a)<SELECT>  
c)<OPTION>
- b)<INPUT>  
d)<HEAD>
8. \_\_\_\_\_ is designed primarily to enable the separation of document content from document presentation. [1]
- a)CSS  
c)HTML
- b)CS  
d)FONT
9. \_\_\_\_\_ is called an email tag. [1]
- a)<a mailing>  
c)mailto
- b)<A>  
d)email
10. The two common attributes of the <img> and the <table> tag are: [1]
- a)they do not have any common attributes  
c)HEIGHT AND WIDTH
- b)BORDER AND SRC  
d)SRC AND HEIGHT
11. **Assertion (A):** The external style sheet has the least priority. Any rule defined in an external style sheet file takes the lowest priority, and rules defined in this file will [1]



be applied only when the above two rules are not applicable.

**Reason (R):** The color values are used to apply colours to different elements in CSS. These are used to set a color either for the foreground of an element (i.e., its text) or else for the background of the element.

- 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):** The Body tag includes identification and supplementary information such as title of the document, scripts, styles, meta information, etc. [1]

**Reason (R):** The Title tag is also an optional tag. It contains the title of a web page, which is displayed in the Title bar of the browser. It is a container tag.

- 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 information retrieval? [2]

14. What is TCP? [2]

OR

Give the name of any two websites which are used to send e-mail.

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 Spam?

17. Name the different types of style sheets. [2]

18. Write the HTML code to display the text in red color and arial font. Give the background image of your choice. [2]

OR

What are nested lists?

19. What is the combo box? [2]

### Section C

20. What is GPL software license? How is it different from LGPL software license? [3]

21. What is e-learning? Mention any two main benefits of e-learning with respect to the use of information technology. [3]

22. What is a CSS rule? What are its components? How will you declare a style in CSS? [3]

OR

Discuss the significances of background-colour property of Cascading style sheets with the help of suitable HTML code.

23. What can be done to avoid hacking? Explain in three points. [3]

### Section D

24. Explain the attributes of HR element. [4]

OR

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.

### Section E

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

**Outline Property:** The outline property specifies a line to be drawn around elements. The line is drawn outside the borders to make the element 'stand out' and to enhance its impact. Different types of outline properties such as outline-style, outline-colour, outline-width can be specified for an HTML tag.

- (i) Which property applies an outline that makes the box look like it is embedded in the page?
- (ii) Why the Outlines are different from the borders?
- (iii) Which property applies an outline that makes the box look like it is coming out of the canvas?

- (iv) What are the different types of outline properties which can be specified for an HTML tag?

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

[4]

Anurag wants to search some content on internet for his geography project. He typed a URL in the web browser to open the website.

- (i) The URL he typed is also called \_\_\_\_\_ of the web site.
- (ii) Anurag wants to download the information for his project. Help him understand what is downloading?
- (iii) Anurag uses web browser to work on internet. Define web browser.
- (iv) Which type of software Anurag will use to find information on internet?

**Solution**  
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**Section A**

1.  
(c) Security  
**Explanation:**  
Security
2.  
(d) Cleaning a locality  
**Explanation:**  
A place can only be cleaned if someone is present physically. In all other areas videoconferencing is being used extensively.
3. (a) E-Commerce  
**Explanation:**  
E-Commerce
4. (a) SMTP  
**Explanation:**  
SMTP
5.  
(c) Time Sharing  
**Explanation:**  
Time Sharing
6.  
(d) <INPUT>  
**Explanation:**  
The <INPUT> tag specifies an input field where the user can enter data.
7. (a) <SELECT>  
**Explanation:**  
Use the <SELECT> container tag to create drop-down menus.
8. (a) CSS  
**Explanation:**  
CSS is designed primarily to enable the separation of document content from document separation, including aspects such as layout, colors and fonts.
9.  
(c) mailto



**Explanation:**

mailto

10.

**(c) HEIGHT AND WIDTH**

**Explanation:**

HEIGHT AND WIDTH

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.

**(d) A is false but R is true.**

**Explanation:**

A is false but R is true.

**Section B**

13. The process of finding and acquiring specific information from a collection of vast information resources on the web is known as information retrieval.

14. TCP stands for Transmission Control Protocol. It is a communication protocol and is responsible for breaking the data down into small parts called packets before they can be sent over a network. It also takes care of assembling the packets again at the destination. If a data in a packet is distorted then the TCP requests the sender to resend the packet.

OR

www.gmail.com and www.rediffmail.com

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

Spam are unwanted e-mail which are business related and sent to the e-mail account in bulk.

17. The different types of style sheets are: Inline style sheet, Internal style sheet and External style sheet.

18. <HTML>

<BODY background = "C:\My pictures\computer.jpg">

<FONT color = "red" face = "arial">

Learning HTML is quite easy

HTML is a markup language.

```
</FONT>
```

```
</BODY>
```

```
</HTML>
```

OR

Lists can be nested or placed inside one another.

Example:

```
<html>
```

```
<body>
```

```
<h4>ILLUSTRATION of Nested LISTS</h4>
```

```
<h4>SUBJECTS OF STUDY</h4>
```

```
<ol>
```

```
<li>Maths
```

```
<li>English
```

```
<li>Language
```

```
<ul>
```

```
<li>Hindi
```

```
<li>Sanskrit
```

```
<li>Tamil
```

```
</ul>
```

```
<li>Science
```

```
<li>Social Science
```

```
<li>Computer Applications
```

```
</ol>
```

```
</body>
```

```
</html>
```

ILLUSTRATION of Nested LISTS

SUBJECTS OF STUDY

1. Maths

2. English

3. Language

- Hindi
- Sanskrit
- Tamil

4. Science

5. Social Science



## 6. Computer Applications

19. A select element presents a set of options to the user. If only a single entry can be selected and no visible size has been specified, the options are presented in a combo box (drop down menu). `<SELECT>` tag creates a combo box for selecting among choices. You specify each choice with an `<OPTION>` element enclosed between `<SELECT>` and `</SELECT>`.

### Section C

20. The GPL (General Public License) is a free, copyleft software license. It allows users to copy the software as many times as needed. It can be distributed and modified without any restriction and can be shared as well.

The main difference between GPL and LGPL is that GPL provides more protection to the software users. It allows them the freedom to make changes to the software, share and receive source code. When a user distributes the software, one must make sure others can get the same rights. It is important to note that any changes made in the software must also be licensed under GPL.

LPGL, on the other hand, is specially designated for software libraries, wherein one can make changes and give back source codes.

21. Learning with the help of electronic resources like computers, tablets, smart phone, internet, etc., is known as e-learning.

Advantages of e-learning are:

- i. It is time-saving as well as removes the distance barrier between learner and teacher.
- ii. It has quicker delivery cycle times than traditional classroom-based instruction.
- iii. It is less expensive to set up an e-learning environment.

22. A CSS rule is a grouping of one or more CSS properties which are to be applied to one or more target HTML elements CSS style declaration consists of two major parts; Selector and Declaration.

- i. Selector - A selector is an HTML tag in which you want to apply styles. This could be any tag like `<h1>`, `<p>`, `<table>` etc.
- ii. Declaration - The Declaration is a block of code that contains style definition. It consists of property and its value enclosed in curly braces. The property name and its value should be separated by a colon. Each declaration should be terminated by a semicolon (;).

**Example:** `h1 {font-family:arial;color:blur;}`

OR

The background-color property in CSS is significant as it allows web designers to define the background color of HTML elements. It plays a crucial role in enhancing the visual appeal, establishing visual hierarchy, and improving readability. Example HTML code:



```

<style>
.container {
  background-color: lightblue;
  padding: 20px;
}
</style>

<div class="container">
  <h1>Welcome to My Website</h1>
  <p>This is some sample text.</p>
</div>

```

23. To avoid hacking one can do the following:

- i. Always install a Firewall. It monitors and filters incoming and outgoing internet traffic.
- ii. Use an updated antivirus software. This will help in diagnosing and removing new computer viruses.
- iii. Install anti spyware software. It helps in protecting computer from spyware.

#### Section D

24. The HR element is used to draw a horizontal dividing line completely across the screen.

This can be used to logically separate blocks of text.

**ALIGN:** This attribute positions the rule on the page either LEFT, RIGHT or CENTER.

**NOSHADE:** This attribute renders the tag as an unshaded dark grey line without the hollow and slightly 3D appearance.

**SIZE:** This is a measurement of how thick the line is.

**WIDTH:** It can be set as a number or a percentage.

**COLOR:** It sets the color of the rule.

**Example:**

```

<HTML>
<BODY>
<H1> This is an example </H1>
<HR size="4" width="80%">
<HR size="10" width=40>
<HR size="10" width="40" align="center">
<HR size="10" widths="40" align="center" noshade>
<HR size="10" width="40" align="center" color="blue">
</BODY>
</HTML>

```

OR

- 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 flow
It later cools and solidifies to form igneous rock. These rocks contain minerals like mica
magnesium Granite 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 of
layers and hardens them into rock. Such rocks are called sedimentary rocks. Sandstone,
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
sedimentary or older metamorphic rocks. These changes happen due to heat and pressure
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.

### Section E

25. Read the text carefully and answer the questions:

**Outline Property:** The outline property specifies a line to be drawn around elements. The line is drawn outside the borders to make the element 'stand out' and to enhance its impact. Different types of outline properties such as outline-style, outline-colour, outline-width can be specified for an HTML tag.

(i) Inset property.

(ii) The outlines are different from the borders because of the following reasons:

- i. An outline does not take up space.
- ii. The outlines do not have to be rectangular.
- iii. The outline is always the same on all sides.

(iii) Outset property.

(iv) The different types of outline properties which can be specified for an HTML tag are as follows:

- i. Outline-style
- ii. Outline-color
- iii. Outline-width

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

Anurag wants to search some content on internet for his geography project. He typed a URL in the web browser to open the website.

(i) 1. Web address

(ii) Downloading is the process of saving web pages, images and files from a web server on users local host computer using internet.

(iii) A web browser or a browser is an application or software used to access and view websites.

(iv) The websites used to search any type of information on internet are called search engines.