

CBSE Board Examination – 2025

COMPUTER APPLICATIONS

Solved Paper

Class– 10th

Maximum Marks: 50

Time allowed: 2 hours

GENERAL INSTRUCTIONS:

Please read the instructions carefully.

- (i) This question paper has 5 Sections: Sections A, B, C, D, E.
- (ii) All questions are compulsory. However, internal choices have been provided in some of the question.
- (iii) Section A has 12 questions carrying 1 mark each.
- (iv) Section B has 7 Very Short Answer (VSA) type questions carrying 2 marks each.
- (v) Section C has 4 Short Answer (SA) type questions carrying 3 marks each.
- (vi) Section D has 1 Long Answer (LA) type question carrying 4 marks.
- (vii) Section E has 2 Source-based/Case-based/Passage-based questions carrying 4 marks each.

SECTION A

(All questions are compulsory) 1×12=12

1. Arun is sending an e-mail to his office. Which protocol out of the following options will be used for the purpose? 1
(A) FTP (B) HTTP
(C) SMTP (D) SCP
2. Which of the following is not an e-Reservation portal in India? 1
(A) <https://www.amazon.in>
(B) <https://www.yatra.com>
(C) <https://www.makemytrip.com>
(D) <https://www.irctc.co.in>
3. Which of the following attributes is not a valid attribute of the tag in HTML? 1
(A) face (B) type
(C) size (D) color
4. What is the full form of FTP? 1
(A) File Transfer Protocol
(B) File Transmission Protocol
(C) Fast Transfer Protocol
(D) Fast Transmission Protocol
5. Which of the following attributes is not a valid attribute of the <body> tag in HTML? 1
(A) text (B) background
(C) bgcolor (D) width
6. Select the correct option to fill in the blank: 1
A _____ is an online platform or website where individuals or businesses regularly publish articles/journals, known as posts, on various topics.
(A) Brower (B) Blog
(C) News Group (D) Web Server
7. The default value for the type attribute of an Unordered List in HTML is: 1
(A) circle (B) disc
(C) square (D) triangle
8. Which of the following is not a Search Engine available over the Internet? 1
(A) Google (B) Bing
(C) Diksha (D) Yahoo
9. Which of the following options is a network protocol that enables secure and encrypted file transfers between a client and a server? 1
(A) SFTP (B) Telnet
(C) SCP (D) HTTP
10. Which of the following options will set the font family of all paragraphs to 'Arial'? 1
(A) `<style> p { font-family: Arial; } </style>`
(B) `<style> p { fontfamily: Arial; } </style>`
(C) `<style> p { font: Arial; } </style>`
(D) `<style> p { font-type: Arial; } </style>`
Questions No. 11 and 12 are Assertion and Reason type questions. Each question consists of two statements, namely, Assertion (A) and Reason (R). Select the most suitable option considering the Assertion and Reason.
(A) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).
(B) Both Assertion (A) and Reason (R) are true, but Reason (R) is not the correct explanation of Assertion (A).
(C) Assertion (A) is true, but Reason (R) is false.
(D) Assertion (A) is false, but Reason (R) is true.
11. **Assertion (A):** FTP is a networking protocol used for transferring files.

Reason (R): FTP is used when we want to view some data from a website. 1

12. **Assertion (A):** SMS is an acronym for Smart Message Service.

Reason (R): SMS is the most common technology for delivering short, concise and important messages quickly. 1

SECTION B

7×2=14

2. What is a Digital Property? Write any two examples of digital property. 2
14. (a) What is e-Shopping? Write names of any two commonly used e-Shopping portals. 2

OR

- (b) What is a Social Network? Write names of any two popular social networking sites on the Internet. 2

15. State whether the following statements are True or False: 2

- (i) `<h1>` is the highest level of heading and `<h4>` is the lowest level of heading in HTML.
- (ii) A visited link is purple coloured by default in HTML.
- (iii) The character '#' is used to start a comment text in HTML.
- (iv) `` is an empty tag in HTML as it does not need to be closed.

16. (a) Write the HTML code to create a link to the web page having URL as: 2
www.festivals.com/india/diwali.html

The mentioned web page should get opened in a new window/tab on clicking the text, 'FESTIVALS'.

OR

- (b) (i) Write HTML code to display the following line of text in bold and italics. 2
Happiness is not by chance, but by choice.

- (ii) Write the HTML code to set the background color of the web page as blue.

17. Write the purpose of the following HTML tags: 2

(i) `
`

(ii) `<DL>`

18. (a) An incomplete CSS code within `<head> . . . </head>` is given below. Complete this code by filling in the blanks as per the specifications that follow. 2

```
<head>
<style>
body { _____:_____;} <!--line
1 -->
P { _____:_____; <!--line 2
-->
_____:_____; <!--line 3 -->
}
_____ <!--line 4 -->
```

```
{
Color: Blue;
}
</style>
</head>
```

- (i) Line 1: Page background color should be Yellow.
- (ii) Line 2: Color of the paragraph text should be Red.
- (iii) Line 3: Font family of the paragraph text should be Arial.
- (iv) Line 4: The second biggest heading should be Blue in color.

OR

- (b) The following HTML code is expected to create an ordered list for a web page: 2

```
<html>
<body _____ : yellow> <!-- line 1 -->
<p>
<font _____ = Helvetica> <!-- line 2 -->
FESTIVALS OF INDIA
</p>
<_____ > <!-- line 3 -->
<_____ > HOLI <_____ > <!-- line 4 -->
<_____ > DIWALI <_____ > <!-- line 5 -->
<_____ > <!-- line 6 -->
```

Complete this code by filling in the blanks as per the specifications that follow:

- (i) Line 1: Background color of the web page should be Yellow.
- (ii) Line 2: Font for the paragraph should be Helvetica.
- (iii) Line 3 and Line 6: An ordered list should start and end.
- (iv) Line 4 and Line 5: Listing of the ordered list items.

19. Write any two differences between Web Server and Web Client. 2

SECTION C

4×3=12

20. The following HTML statements are not written properly. Re-write the correct statements with underlined corrections. The desired purpose of each statement is mentioned under it. 3

- (i) `<BODY image="background.jpg"> 0`
`<!--Page background should display the image named background.jpg-->`
- (ii) ``
`<!--Font should be 5 in size-->`
- (iii) ``
`<!--Image source should be img.jpg and its alternate text should be "An Image">`

21. (a) Give the full form of the following: 2+1=3

- (i) TCP/IP
- (ii) SSH

OR

- (b) Consider the given URL:
 http://www.mypage.com/
 Is it a secure website? Justify your answer. 3

22. (a) Explain how to insert an audio on a web page using <audio> tag. Give example to support your answer.

OR

- (b) Akhil, an entrepreneur, has made some videos for marketing purposes. He wants to create a web page and share these videos to increase his customers on the online platform. Help Akhil to do the same with the given instructions:

- (i) Use HTML to put a video "products.mp4" in the web page.
 (ii) The video should autoplay in the width of 400 pixels and height 300 pixels in the browser window,
 (iii) The video controls buttons Play, Pause and Volume should be visible. 3

23. (a) Write suitable HTML statements to display the following text on a web page:

- (i) $\text{Ca}(\text{OH})^2$
 (ii) $2(\text{A}^2 + \text{B}^2)$
 (b) Give any one advantage of CSS. 2+1=3

SECTION D

24. (a) Write the HTML code to design the web page as shown below: 4

Student Data Entry Form

Name : Gender : Male Female OtherLanguages : English HindiStream :

Science	▼
Science	
Commerce	
Humanities	

Note:

The title of the page should be 'Student Data Entry Form'.

The heading 'Student Data Entry Form' on the web page should be of largest possible size.

OR

- (b) Write the HTML code to design the web page as shown below (Table border should be 1, height=150 and width=350 with cellpadding=15): 4

JANUARY 2025	
NAME	ATTENDANCE
Abha	Present
Alok	Absent
Teacher: Ms. Anju	

SECTION E

Case-Study

2 × 4 = 8

25. Sujata is a class 10 student and has to submit her project work to her teacher. She uses the Internet to find out content related to her project work and prepares her document by copying the contents into her submission.

With respect to the given case study, answer the following questions: 4

- (i) What is the name of the act that Sujata has committed by copying contents from Internet to her projects?
 (ii) The content available over the Internet which Sujata is copying could be another person's _____ property. (Digital/Physical)
 (iii) To copy someone else's content from the Internet is not considered as good behaviour. What is the term used for good behaviour that should be followed on the Internet?
 (iv) Sujata is violating IPR of the original content creator. Expand the term IPR.

26. Jessica runs a small graphic design company called ABC Vision. To save money, she decided to use a pirated version of a popular design software instead of buying a licensed software. Her legal advisor told her to go for open source software instead of pirated software. 4

Answer the questions based on the above case study:

- (a) What is open source software?
 (b) Give any two examples of open source software.
 (c) Mention any two advantages of open source software.
 (d) Define the term "Software License".



ANSWERS

SECTION A

1. **Option (C) is correct.**

Explanation: SMTP stands for Simple Mail Transfer Protocol. It is a communication protocol used for sending and receiving email messages over the Internet. Mail servers and other Message Transfer Agents (MTAs) use SMTP to send, receive and relay email messages.

2. **Option (A) is correct.**

Explanation: Websites like yatra.com, makemytrip.com and irtctc.co.in, all the sites can be used to reserve online tickets. Amazon.in is a commercial website used for selling and purchasing goods, not for e-Reservation

3. **Option (B) is correct.**

Explanation: face attribute is used for the font face, size specifies the size of the characters, color is used to provide the text color. There is no <type> attribute with tag.

4. **Option (A) is correct.**

Explanation: FTP stands for "File Transfer Protocol", which is used to transfer files over a network.

5. **Option (D) is correct.**

Explanation: text specifies the text color, background specifies the background image, bgcolor is for the background color of the page, <width> attribute does not exist.

6. **Option (B) is correct.**

Explanation: A blog, short for "weblog," is a regularly updated website where individuals or businesses publish content, typically displayed in reverse chronological order, with the newest content appearing first.

7. **Option (B) is correct.**

Explanation: In an 'Unordered' list the default bullet is a solid disc.

8. **Option (C) is correct.**

Explanation: Google, Bing and Yahoo are Search Engines.

DIKSHA (Digital Infrastructure for Knowledge Sharing) is a national digital platform and app for school education in India, launched by the Ministry of Education, providing teachers, students and parents with a digital repository of learning resources and tools.

9. **Option (A) is correct.**

Explanation: SFTP, or Secure File Transfer Protocol, is a secure file transfer protocol that uses Secure Shell (SSH) encryption to protect data during transmission, offering a secure alternative to the older File Transfer Protocol (FTP).

10. **Option (A) is correct.**

Explanation: This CSS rule sets the font family of all paragraphs <p> element to "Arial".

11. **Option (C) is correct.**

Explanation: FTP is used for transferring files, not for displaying data from web sites.

12. **Option (D) is correct.**

Explanation: SMS stands for "Short messaging service". It is used popularly for delivering short messages.

SECTION B

13. Digital property (or digital assets) refers to any information about us, or created by us that exists in digital form, either online or on an electronic storage device.

For example, any online personal accounts such as email, personal websites and blogs, domain names registered in our name, intellectual properties, etc.

14. E-shopping or online shopping, is the process of buying goods and services from merchants who sell their products on the Internet.

Advantages of E-shopping:

1. Finding a product online is much easier than looking for it in the local store.
2. Nowadays online shopping is very reliable.
3. Access to global market
4. Products are available at cheaper or affordable rates.
5. Bigger customer market for businesses.

Example of E-shopping websites:

- (a) flipkart.com
- (b) amazon.in
- (c) meesho.com

OR

Social network, is an online community of individuals who exchange messages, share information, and, in some cases, cooperate on joint activities. Social networking and social media are overlapping concepts, but social networking is usually understood as users building communities among themselves while social media is more about using social networking sites and related platforms to build an audience.

Social networking involves using online platforms to connect with and interact with others, build relationships, share information and explore common interests.

Popular Social Networking Platforms:

- Facebook

- Instagram
- LinkedIn
- YouTube

15. (i) **False:**

Explanation: <H1> is the highest level of heading, <H6> is the lowest level of heading.

(ii) **True :**

Explanation: Visited link is Purple in color.

(iii) **False:**

Explanation: <!... > is used for a single line comment in HTML.

(iv) **False :**

Explanation: is not an empty tag, it is a container tag and must be closed with

16. (a) **Code :**

```
<A href=" https://www.festivals.com/india/diwali.html" target="_blank"> Festivals</A>
```

OR

(b) (i) <I> Happiness is not by chance, but by choice.</I>

(ii) <body bgcolor = "blue">

17. (i)
 : The
 HTML element produces a line break in text (carriage-return). It is useful for formatting a content such as poems or addresses, where the division of lines is significant.

(ii) <DL> : The <dl> HTML element represents a description list. The element encloses a list of group of terms (specified using the <dt> element) and their corresponding descriptions (provided by <dd> elements). Common uses for this element include implementing glossaries or to display metadata (a list of key-value pairs).

18 (a) Line 1 : background-color: Yellow;

Line 2 : Color: Blue

Line 3 : Font-family : Arial;

Line 4 : H2

OR

(b) Line1 : BGCOLOR

Line2 : face

Line 3 :

Line 4:

Line 5:

Line 6:

19. Differences between web client and web server.

Web Client	Web Server
A computer device which requests a server for services is known as a client.	A server is also a computer device which offers services to other devices connected to a network.
Clients support the login of single users.	Servers support multiple user logins.

The client performance is less when we compare it with the server.	The server performance is high when we compare it with the client.
The main task of a client is to request services.	It fulfils the client request, it stores and processes large datasets, and performs data analysis.
It completely depends on the services provided by the server.	It sends the requested services to the client based on their requirements.

SECTION C

20. (i) <body background="background.jpg">

(ii)

(iii)

21. (a) (i) TCP/IP : Transmission Control Protocol / Internet Protocol

(ii) SSH : Secure Shell

OR

(b) No, it is not secure, as secure websites use the HTTPS protocol instead of HTTP.

22. (a) The <audio> tag in HTML5 is used to embed audio content on a webpage. It allows you to play audio files like MP3, OGG, or WAV directly in the browser. The <audio> element provides attributes for controlling playback, such as play, pause and volume.

Example :

```
<audio>
```

```
<source src="sample.mp3" type="audio/mpeg">
```

```
</audio>
```

The autoplay attribute is used to automatically begin playback of the audio file whenever the URL of the webpage is loaded.

Attributes	Description
Controls	Designates what controls to display with the audio player.
src	Designates the URL of the audio file.
Loop	Designates that the audio file should continuously repeat.

OR

(b) <video controls width="400px" height="300px">

```
<source src="products.mp4" type="video/mp4">
```

```
</video>
```

23. (a)

(i) Ca(OH)₂

- (iii) Netiquette
- (iv) Intellectual Property Rights
26. (a) **Open source software:** Open-source software (OSS) is computer software released under a license whose source code is freely available to the public. It allows users to use, study, modify and distribute the software without restrictions.
- (b) **Two examples of OSS :** Linux , Mozilla (Other correct examples: MySQL, Apache, LibreOffice, GIMP, etc.)
- (c) Two advantages of Open source software:
- (i) Cost-effectiveness
- (ii) Flexibility
- (Other possible advantages: Security, Transparency, Community Support, Continuous Updates, etc.)
- (d) A software license is a legal agreement that grants users the right to use, copy, distribute, or modify software, while also specifying the terms and conditions under which they can do so.

OSWAAL

360