CLASS X
POST MID TERM EXAMINATION 2024-25
SUBJECT : COMPUTER APPLICATIONS(165)
SET - A
MARKING SCHEME

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

	Section-A **Answer the following questions :**	**1x12 =12**
1	**When one page is linked to another website, it is called_____ linking.** ii. External	**1**
2	**BGCOLOR attribute is used to set the background color for ……..** iv. All of these	**1**
3	**What does HTTPS stands for?** i. Hypertext Transfer Protocol Secure	**1**
4	**The default value of the <UL> tag is a ……** iii. Disc	**1**
5	**Which of the following tag is used to set the heading levels in an HTML document?** iv.None of these	**1**
6	**What is the process of receiving data from a remote machine to a local machine called?** ii Downloading	**1**
7	**What is the purpose of CAPTCHA on websites?** i. To prevent automated bots from accessing or using a website	**1**
8	**Which technology is used to identify and authenticate users based on their unique physical characteristics, such as fingerprints or retina patterns?** ii. Biometrics	**1**
9	**Which type of input field allows the user to select multiple options?** ii. <input type="checkbox">	1
10	**Which attribute defines the space between the cell content and the cell border?** iv. Cellpadding	**1**
	Questions No-11 & 12 are Assertion and Reason types. Each question consists of two statements, namely, Assertion (A) and Reason (R). Select the most suitable option considering the Assertion & Reason.	
11	**Assertion (A)**:Hyperlinking of a web document means linking to another web document or a position in a web document. **Reason (R):**HTML allows external and internal linking . i. Both (A) and (R) are true and (R) is a correct explanation of (A).	**1**

12	**Assertion (A): The <form> tag can contain input elements for user data collection.** **Reason (R): The <form> tag must have an action attribute to specify where to send the data.** i. Both (A) and (R) are true and (R) is a correct explanation of (A).	**1**
	Section-B **Answer the following questions :**	**2X7 =14**
13	Write the HTML code to send an email to abc@xyz.com through your web page. Send Email	**2**
14	Name the attributes of <IMG> tag which are used for specifying its dimensions in a web page. **width**: Sets the width of the image. **height**: Sets the height of the image	**2**
15	Differentiate between BGCOLOR and BACKGROUND ? The BGCOLOR attribute is used to set the background color of an HTML element (commonly used in the <body> tag). The BACKGROUND attribute is used to set a background image for an HTML element	**2**
16	What is intellectual property? What do you understand about intellectual property rights? Intellectual property refers to creations of the mind that have commercial value. Intellectual property rights are the legal rights that protect these creations. They grant the creator exclusive rights to use, reproduce, and distribute their work, preventing others from using it without permission.	**2**
17	Compare 3G and 4G mobile technologies on any two major points. **3G**: Offers data transfer speeds ranging from 200 Kbps to a few Mbps, depending on the technology (e.g., UMTS, HSPA). It is sufficient for basic internet browsing and video streaming but can be slow for high-bandwidth applications. **4G**: Provides significantly higher data transfer speeds, typically between 10 Mbps to over 100 Mbps. This allows for smoother video streaming, faster downloads, and better performance for applications like online gaming and video conferencing.	**2**
18	What are the major factors behind the digital divide? The digital divide is influenced by several major factors: Economic Factors Geographical Factors Educational Factors	**2**
19	What is credit card fraud? Credit card fraud refers to unauthorized use of a credit card or its information to make purchases or access funds without the cardholder's consent.	**2**
	Section-C **Answer the following questions :**	**3X4 =12**

20	**Write short note on;** **i) E-Groups** E-Groups are online forums or discussion groups where individuals with shared interests can communicate, share information, and collaborate. **ii) Social Networking** Social networking refers to the use of online platforms to connect and interact with others. Websites like Facebook, Twitter, and LinkedIn allow users to create profiles, share content, and build relationships with friends, family, and colleagues. **iii) Video Conferencing** Video conferencing is a technology that enables real-time audio-visual communication between individuals or groups over the internet. Platforms like Zoom, Microsoft Teams, and Skype allow users to conduct meetings, webinars, and virtual events from different locations.	**3**
21	**Define the following with an example:** **i) Heading Tag** **Definition**: Heading tags are used to define headings in HTML. They range from <h1> (the most important) to <h6> (the least important), indicating the hierarchy of content. **ii) Paragraph Tag** **Definition**: The tag is used to define a paragraph of text in HTML. It automatically adds space before and after the paragraph, making it easy to read. **iii) Superscript Tag** **Definition**: The <sup> tag is used to define text that should be displayed as superscript, which is text that appears smaller and raised above the baseline (e.g., for exponents).	**3**
22	Write suitable html statements to display the following text on a webpage in appropriate subscript and superscript form: **i. NH_3** NH₃ **ii. $A^2 + B^2 + C^2$** A² + B² + C² **iii. $C_6H_{12}O_6$** C₆H₁₂O₆	**3**
23	Define plagiarism. Explain the concept of copyright. How does it relate to plagiarism? **Plagiarism** Plagiarism is the act of using someone else's work, ideas, or intellectual property without proper attribution, presenting it as one's own. This can include copying text, images, music, or other forms of creative work without giving credit to the original creator. Plagiarism is considered unethical and can have serious consequences in academic, professional, and legal contexts. **Copyright** Copyright is a legal framework that grants creators exclusive rights to their original works, including the right to reproduce, distribute, and display those	**3**

works. Copyright applies to various forms of expression, such as literature, music, art, software, and films.

Relationship between Copyright and Plagiarism

Copyright and plagiarism are related but distinct concepts:

- **Copyright** provides legal protection to the creator's original work, allowing them to control how it is used and distributed. Violation of copyright laws can lead to legal consequences, such as lawsuits or financial penalties.
- **Plagiarism** is primarily an ethical issue. It involves failing to give appropriate credit to the original creator, regardless of whether the work is copyrighted. Plagiarism can occur even if the work is not copyrighted, as it relates to the moral obligation to acknowledge sources.

Section-D — **4X1 =4**

Answer the following questions :

24 Write HTML code to generate the following table. — **4**

Table with Row and Column Span

Day/Time	9:00 AM - 11:00 AM	11:00 AM - 1:00 PM	1:00 PM - 3:00 PM
Monday	Math	Science	History
	English		Geography
Lunch Break			
Wednesday		Art	Physical Education

Section-E — **4X2 =8**

Answer the following questions :

25 Discuss the significance of cyber security in the modern digital landscape. In your answer, address the following points:

Definition and Scope of Cyber Security

Cyber security refers to the practices, technologies, and processes designed to protect networks, devices, programs, and data from unauthorized access, damage, or theft. Its scope encompasses various areas, including:

- **Network Security**: Protecting computer networks from intruders and attacks.
- **Application Security**: Ensuring software and applications are secure from vulnerabilities.
- **Information Security**: Safeguarding data integrity and privacy.

Current Cyber Threats

The modern digital landscape faces numerous cyber threats, including:

- **Malware**: Malicious software designed to damage or exploit systems (e.g., viruses, ransomware).

	● **Phishing Attacks**: Deceptive emails or messages that trick users into revealing sensitive information. **Best Practices for Enhancing Cyber Security** To mitigate cyber threats, individuals and organizations can adopt several best practices: 1. **Regular Software Updates**: Keep operating systems, applications, and security software updated to patch vulnerabilities. 2. **Strong Password Policies**: Use complex passwords and change them regularly. Implement multi-factor authentication (MFA) for an added layer of security. 3. **Network Security Measures**: Utilize firewalls, intrusion detection systems, and secure Wi-Fi configurations. **The Importance of User Awareness and Training** User awareness and training are critical components of a robust cyber security strategy. This includes: ● **Educating Employees**: Regular training sessions on recognizing phishing attempts, secure browsing practices, and safe use of company devices. ● **Promoting a Security Culture**: Encouraging a culture of security awareness within organizations where employees are vigilant and proactive about cyber threats.	
26		**4**
	Based on the information provided, here are the answers to the questions: i. Mr. Lokesh is a victim of **online fraud**. ii. Mr. Lokesh finds that his personal details are now leaked. This means his **privacy** is compromised. iii. While filling out details online, Mr. Lokesh should have checked **for "https://"** in the URL. iv. This type of incident will be recognized as a case of **identity theft**.	