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| **PROGRAM** | **BACHELOR OF COMPUTER APPLICATIONS (BCA)** |
| **SEMESTER** | **V** |
| **COURSE CODE & NAME** | **DCA3101 WEB DESIGN** |
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**Set-I**

**1. What is the fundamental difference between the Internet and the World Wide Web?**

**Ans 1.**

**Fundamental Difference Between the Internet and the World Wide Web**

The Internet and the World Wide Web (WWW) are often used interchangeably, but they are two distinct entities that serve related yet different purposes. The **Internet** is the massive global network of interconnected computers, while the **World Wide Web** is a service that operates on the Internet, enabling access to web content. To understand the fundamental difference, it is essential to explore their definitions, roles, and the technology behind each.

**Definition and Functionality of the Internet**

The Internet is a vast global infrastructure consisting of physical networks, including cables, routers, satellites, and servers, that connect millions of computers worldwide. It operates on the

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**2. Describe three key services provided by the Internet and explain one common threat to Internet security. 3+7**

**Ans 2.**

**Key Services Provided by the Internet and Common Threat to Internet Security**

The Internet is a crucial enabler of modern communication and digital activities, offering a range of services that cater to individuals, businesses, and governments. Three of the most essential services provided by the Internet are **communication services**, **information access**, and **e-commerce platforms**. Alongside these benefits, Internet users face security threats such as malware, phishing attacks, and data breaches.

**1. Communication Services** One of the primary uses of the Internet is communication. Email

**3. What is the purpose of a URI in HTML, and how is it used to create hyperlinks?**

**Ans 3.**

**Purpose of a URI in HTML and its Role in Creating Hyperlinks**

A **URI** (Uniform Resource Identifier) is a key component of web technology that serves as an identifier for resources such as web pages, images, or downloadable files. In the context of HTML, a URI plays a crucial role in enabling navigation and access to resources by creating hyperlinks. The ability to connect different pages and resources is one of the fundamental features of the **World Wide Web**, made possible through URIs.

**Purpose of a URI in HTML**

The primary purpose of a URI in HTML is to uniquely identify and locate a resource on the web.

**Set-II**

**4. Explain how to insert an image in an HTML document and the significance of using the <address> tag.**

**Ans 4.**

HTML allows developers to create visually appealing web pages by incorporating multimedia elements such as images. To include an image in an HTML document, the <img> tag is used. The <address> tag, on the other hand, has a specific role in marking contact information, ensuring semantic meaning for the content.

**How to Insert an Image in an HTML Document**

The <img> tag in HTML is used to embed images into a webpage. It does not have a closing tag because it is a **self-closing element**. The <img> tag requires the **src** (source) attribute, which

**5. What are the essential elements to include when authoring a basic HTML web page, and why is the DOCTYPE declaration important?**

**Ans 5.**

**Essential Elements to Include When Authoring a Basic HTML Web Page and the Importance of DOCTYPE Declaration**

When authoring a basic HTML web page, certain essential elements must be included to ensure proper structure, functionality, and compatibility. HTML (HyperText Markup Language) serves as the foundation for web page creation, and its elements define the content and structure of the page.

**Essential Elements of a Basic HTML Web Page**

1. **DOCTYPE Declaration**: This is the very first line in an HTML document. It specifies the version of HTML being used, ensuring that the browser renders the page correctly.
2. **HTML Tag**: The <html> tag is the root element that encompasses all other elements on

**6. What is the main advantage of using CSS in web development, and how does it help in separating content from design?**

**Ans 6.**

**Main Advantage of Using CSS in Web Development and Separation of Content from Design**

Cascading Style Sheets (CSS) play a fundamental role in modern web development by enhancing the visual presentation of HTML documents. While HTML structures the content, CSS is responsible for defining its style, layout, and overall appearance. The use of CSS introduces significant advantages, particularly in maintaining clean, modular code and achieving the separation of content from design.

**Main Advantage of Using CSS in Web Development**

The primary advantage of using CSS is its ability to **control the visual presentation** of a web