

Unit I: WEB ESSENTIALS

1. Remember:

- What are the steps involved in creation of website? Explain in brief.
- What is the working principle of a website?

Or

Explain the steps involved in creating a website and also the working principle of a website?

- List and explain fundamental elements of browsers.

2. Understand:

- List authoring tools and explain the relationship between authoring tools and website creation.
- What is server? State and explain different types of servers with neat labelled diagrams.
- Describe the basics of HTML and its significance in webpage development.

3. Analyze:

- Evaluate the impact of different types of servers on website performance.
- Or
- What is server? State and explain different types of servers and evaluate the impact of different types of servers on website performance.

4. Evaluate:

- Compare Static and dynamic website. Describe different HTML tags used in website creation or
- Describe the basics of HTML, Describe different HTML tags used in website creation
Compare Static and dynamic website.

Unit II: SCRIPTING ESSENTIALS

1. Remember:

- Explain need scripting languages in web development and Write applications of Scripting languages.
 - List and explain different types of Scripting languages. Describe Working principle of PHP.
 - What is JavaScript? Explain the role of JavaScript in enhancing the interactivity of web pages.
- Or
- List and explain different types of Scripting languages. Define JavaScript? And what is its role in enhancing the interactivity of web pages.

2. Understand:

- Explain the concepts of PHP variables, constants, and operators and describe the flow control and looping structures in PHP.

3. Apply:

- Explain Arrays and Strings in PHP with its methods.
- Explain file handling in PHP. Create a PHP script that performs basic operations like read, write, append and delete on a file.

Or

- What is the concept of file handling in PHP? Create a PHP script that performs basic operations like read, write, append and delete on a file.

4. Analyze:

- Differentiate between client-side and server-side scripting. Evaluate the role of functions in PHP scripting.

Or

- Describe Working principle of PHP, Differentiate between client-side and server-side scripting and Evaluate the role of functions in PHP scripting

5. Evaluate:

- What is the significance of authentication in web applications. Explain the importance of cookies and sessions in PHP.

Unit III: DATABASE ESSENTIALS

1. Remember:

- State and explain database management System. What are the different types of DBMS?
Or
- State and explain database management System. What are the different types of DBMS?, explain different data types and indexes in a database.

2. Understand:

- Explain different data types and indexes in a database. –
- Describe the functions of MySQL in database management. How can PHP be used to access MySQL databases?

3. Apply:

- Perform different MySQL Commands using any database management system.
- List and Explain steps involved in accessing MySQL using PHP
Or
- Describe the functions of MySQL in database management. What are the steps involved in accessing MySQL using PHP. How can PHP be used to access MySQL databases?

Unit IV: NETWORKING ESSENTIALS

1. Remember:

- Define fundamental computer network concepts. –
- Explain layers of the TCP/IP model with neat labelled diagram. Give the importance of the TCP/IP model in modern networking

2. Understand:

- State and explain types of computer networks.
- Explain the concept of a Wireless Local Area Network (WLAN).

Or

What is a Wireless Local Area Network (WLAN)? , Explain the concept of a WLAN in detail along with its advantages over wired networks?

Unit V: NETWORKING COMPONENTS AND DEVICES

1. Remember:

- State and explain different types of networking devices
- Write Short note on (any three)
 - Hub

- Bridge
- Gateway
- Repeater

2. Understand:

- Explain the terms Routing and Switching. Also describe relationship between them.

3. Analyze:

- Difference between Bridge and Gateway. Explain the terms modem and repeater.
Or
- Explain the terms Routing, Switching, modem and repeater? Also describe relationship between them.

Unit VI: APPLICATION ESSENTIALS

1. Remember:

- What are the key components of a Personal Information System (PIS)? Define an Information Retrieval System.
- Or
- Define an Information Retrieval System and what are the steps involved in design and development of information systems.

2. Understand: -

- Explain the process of creating Simple database application. Describe the design considerations for multimedia applications.

3. Apply:

- What are the steps involved in design and development of information systems.

4. Analyze:

- Explain the design and development process of information systems.

5. Evaluate:

- Explain the need and applications of social networking applications
- What are the key steps in creating a simple interactive application?
- How do you design and implement a simple database application?
- What are the main components of multimedia applications, and how are they developed?
- What are the steps involved in designing and developing an information system?
- Can you explain the concept and functionalities of a Personal Information System (PIS)?
- How does an information retrieval system work, and what are its main features?
- What technologies and strategies are commonly used in developing social networking applications?
- Or
- What are the key steps in creating a simple interactive application, and what technologies and strategies are commonly used in developing social networking applications?