IT 23- Advanced Internet Technologies

1. What is one of the primary features introduced in HTML5?

A) New semantic elements

B) Flash animation support

C) Introduction of PHP scripts

D) Increased reliance on tables for layout

Answer: A) New semantic elements

2. Which HTML5 element is used for drawing graphics, animations, or other visual images on the fly?

A) <iframe>

B) <canvas>

C) <svg>

D) <video>

Answer: B) <canvas>

3. What is the purpose of Scalable Vector Graphics (SVG) in HTML5?

A) To embed video files

B) To create vector-based graphics

C) To manage session data

D) To apply styles to elements

Answer: B) To create vector-based graphics

4. Which element is used for playing video files directly in a web page without the need for plugins?

A) <audio>

B) <embed>

C) <video>

D) <object>

Answer: C) <video>

5. Which software can be used for the installation of Apache Tomcat?

A) Visual Studio Code

B) Eclipse IDE

C) Xampp/Lampp/MySQL

D) Notepad++

Answer: C) Xampp/Lampp/MySQL

6. What is the primary purpose of CSS architecture?

A) To structure HTML documents

B) To style web pages

C) To manage server-side operations

D) To handle database queries

Answer: B) To style web pages

7. Which CSS module is used for managing the layout of a web page?

A) CSS Grid

B) CSS Flexbox

C) CSS Transitions

D) CSS Transform

Answer: A) CSS Grid

8. What are pseudo-classes used for in CSS?

A) To select elements based on their attributes

B) To select elements based on their position in the document tree

C) To select elements based on user interaction

D) To select elements based on their font family

Answer: C) To select elements based on user interaction

9. Which property is used to change the size of text in CSS?

A) font-weight

B) font-style

C) font-size

D) font-family

Answer: C) font-size

10. What is the purpose of CSS transitions?

A) To create smooth animations between CSS property changes

B) To transform the structure of HTML documents

C) To handle server requests

D) To generate dynamic content

Answer: A) To create smooth animations between CSS property changes

11. What is Node.js primarily used for?

A) Client-side scripting

B) Server-side scripting

C) Database management

D) Graphic design

Answer: B) Server-side scripting

12. How can you install Node.js on your system?

A) Using npm install node

B) Downloading and running the installer from the official Node.js website

C) Through the browser console

D) Node.js cannot be installed

Answer: B) Downloading and running the installer from the official

13. What does REPL stand for in the context of Node.js?

A) Read Evaluate Print Loop

B) Real-time Environment Programming Language

C) React Evaluate Process Loop

D) Rapid Execution Programming Language

Answer: A) Read Evaluate Print Loop

14. What is the purpose of NPM in Node.js?

A) To manage project dependencies and packages

B) To execute JavaScript code in the browser

C) To create graphical interfaces

D) To handle database queries

Answer: A) To manage project dependencies and packages

15. How are modules handled in Node.js?

A) As standalone files

B) As part of the core system

C) Using import statements

D) Using require statements

Answer: D) Using require statements

16. What is Angular primarily used for?

A) Server-side scripting

B) Client-side scripting

C) Database management

D) Graphic design

Answer: B) Client-side scripting

17. Which programming language is commonly used in Angular development?

A) JavaScript

B) Python

C) Ruby

D) TypeScript

Answer: D) TypeScript

18. What are components in Angular?

A) Reusable pieces of UI

B) Database tables

C) External libraries

D) Server-side scripts

Answer: A) Reusable pieces of UI

19. What is Dependency Injection in Angular?

A) The process of passing parameters to a function

B) A design pattern used to manage software components

C) A method of adding external libraries to a project

D) A technique for handling HTTP requests

Answer: B) A design pattern used to manage software components

20. What is the purpose of Routing in Angular?

A) To optimize database queries

B) To manage navigation within the application

C) To generate dynamic content

D) To handle user authentication

Answer: B) To manage navigation within the application

21. What is PHP primarily used for?

A) Server-side scripting

B) Client-side scripting

C) Database management

D) Graphic design

Answer: A) Server-side scripting

22. How can PHP be installed and configured?

A) By downloading and running the PHP installer

B) By adding PHP code directly into HTML files

C) By installing a web server like Apache with PHP support

D) PHP does not require installation

Answer: C) By installing a web server like Apache with PHP support

23. What are PHP constants?

A) Variables that can be changed during program execution

B) Values that cannot be altered once defined

C) Arrays with fixed sizes

D) Functions that return fixed values

Answer: B) Values that cannot be altered once defined

24. Which variable is used to retrieve data sent from an HTML form using the HTTP POST method?

A) $_POST

B) $_GET

C) $_REQUEST

D) $_SESSION

Answer: A) $_POST

25. What is the purpose of using sessions in PHP?

A) To store data across multiple page requests

B) To improve database performance

C) To execute JavaScript code on the client-side

D) To manage server-side caching

Answer: A) To store data across multiple page requests