TAJ INSTITUTE OF INFORMATION TECHNOLOGY (PRIVATE) LIMITED.

Course Name: Full Stack Web Development
Module 1: Introduction to Web Development
Final Quiz of Module no. 1

Attempt the following MCQs.

1. Which protocol is used to translate a domain name into an IP address?

a) TCP   b) HTTP   c) DNS   d) FTP

2. What is the role of an Internet Service Provider (ISP)?

a) To manufacture routers   b) To manage domain names

c) To provide Internet access   d) To create websites

3. What is a packet in the context of networking?

a) A physical part of a router   b) A unit of data sent over a network

c) A protocol for wireless communication   d) An encryption method

4. Which protocol introduced multiplexing requests for improved performance?

a) HTTP/1.0   b) HTTP/1.1   c) HTTP/2   d) FTP

5. What significant advancement does IPv6 have over IPv4?

a) Faster data transmission   b) Unlimited bandwidth

c) Larger address space   d) Built-in support for HTTP

6. Which of the following best describes the Internet of Things (IoT)?

a) A network of academic institutions

b) Devices connected to the Internet for automation and data exchange

c) Websites used for e-commerce

d) Social media platforms

7. Which of the following is a backend language commonly used in full stack development?

a) HTML   b) JavaScript   c) PHP   d) CSS

8. In a client-server model, the client typically does which of the following?

a) Processes data and stores it   b) Sends requests to the server

c) Configures server settings   d) Hosts a database

9. What is the primary role of APIs in full stack development?

a) Storing data in the database

b) Handling user interface design

c) Enabling communication between frontend and backend

d) Ensuring secure connections

10. Which database type is commonly used for relational data in full stack development?

a) MongoDB   b) MySQL   c) Redis   d) Neo4j

11. Which of the following frameworks is used for frontend development?

a) Django   b) Express.js   c) React.js   d) Flask

12. If a website is not loading, but other websites are accessible, which component is most likely causing the issue?

a) The user's DNS settings   b) The user's browser cache

c) The server hosting the website   d) The user's ISP

13. What happens when a browser sends a request to "www.example.com"?

a) The DNS server provides an IP address for www.example.com.

b) The browser directly connects to the website without any external service.

c) The server sends packets to the browser without authentication.

d) The ISP blocks the request until verified.

14. When designing a website, why is responsive design critical?

a) To ensure that the website works on all devices and screen sizes.

b) To improve database query efficiency.

c) To minimize the use of CSS and JavaScript.

d) To increase server performance.

15. A user interacts with a web application to fetch data stored in a database. Which stack component processes this request first?

a) Frontend framework   b) Backend server

c) Database engine   d) API gateway