### **[Subject: Full Stack Development]**

1. What does **Full Stack Development** mean?  
    a) Developing only the frontend of an application  
    b) Working on both frontend and backend parts of an application  
    c) Managing databases only  
    d) Writing test cases for software  
    **Answer: b**
2. Which of the following is a frontend technology?  
    a) Node.js  
    b) Express.js  
    c) React.js  
    d) MongoDB  
    **Answer: c**
3. Which database type is commonly used in full-stack applications?  
    a) Relational Databases (SQL)  
    b) NoSQL Databases  
    c) Both SQL and NoSQL  
    d) None of the above  
    **Answer: c**
4. What is the role of **Express.js** in a full-stack application?  
    a) Database management  
    b) Frontend UI framework  
    c) Backend web framework for Node.js  
    d) CSS styling tool  
    **Answer: c**
5. Which of the following is NOT a JavaScript framework or library?  
    a) React  
    b) Angular  
    c) Django  
    d) Vue.js  
    **Answer: c**
6. In a MERN stack, what does **MERN** stand for?  
    a) MongoDB, Express, React, Node.js  
    b) MySQL, Express, React, Node.js  
    c) MongoDB, Electron, React, Node.js  
    d) MongoDB, Express, Redux, Node.js  
    **Answer: a**
7. What is the main function of **JWT (JSON Web Token)** in full-stack applications?  
    a) Encrypt data for secure transmission  
    b) Store and manage large media files  
    c) Authenticate and authorize users  
    d) Improve frontend performance  
    **Answer: c**
8. Which of these is a popular CSS framework used in frontend development?  
    a) Bootstrap  
    b) Express  
    c) Flask  
    d) MongoDB  
    **Answer: a**
9. What does the **useState** hook in React do?  
    a) Manages state in functional components  
    b) Handles HTTP requests  
    c) Creates a new route in the application  
    d) Manages database connections  
    **Answer: a**
10. Which HTTP method is used to **send data** to the server?  
     a) GET  
     b) DELETE  
     c) POST  
     d) PUT  
     **Answer: c**
11. What is the role of **CORS (Cross-Origin Resource Sharing)** in full-stack applications?  
     a) Prevent unauthorized database access  
     b) Allow or restrict cross-origin HTTP requests  
     c) Handle frontend routing  
     d) Manage API versioning  
     **Answer: b**
12. Which technology is used for backend development in a **MEAN stack** application?  
     a) Express.js  
     b) Flask  
     c) Laravel  
     d) React.js  
     **Answer: a**
13. In Node.js, which module is used to build an HTTP server?  
     a) fs  
     b) http  
     c) os  
     d) express  
     **Answer: b**
14. What does **CRUD** stand for in database operations?  
     a) Connect, Run, Update, Deploy  
     b) Create, Read, Update, Delete  
     c) Cache, Restore, Utilize, Develop  
     d) Copy, Retrieve, Upload, Delete  
     **Answer: b**
15. Which command is used to start a **React.js** project?  
     a) node start react-app  
     b) npm create-react-app  
     c) npx create-react-app my-app  
     d) react start project  
     **Answer: c**
16. What is an ORM (Object-Relational Mapping) tool used in full-stack development?  
     a) A tool that converts JavaScript into SQL  
     b) A database used in full-stack applications  
     c) A library that simplifies database operations using objects  
     d) A framework for UI development  
     **Answer: c**
17. In **MongoDB**, what is a "Document"?  
     a) A collection of multiple databases  
     b) A single record stored as a JSON-like object  
     c) A table in a relational database  
     d) A programming interface for databases  
     **Answer: b**
18. What is the purpose of **Webpack** in frontend development?  
     a) Optimize and bundle frontend assets  
     b) Manage backend authentication  
     c) Handle SQL queries  
     d) Perform API testing  
     **Answer: a**
19. What is the main difference between SQL and NoSQL databases?  
     a) SQL stores data in structured tables, NoSQL uses flexible document-based storage  
     b) SQL is faster than NoSQL in all cases  
     c) NoSQL does not allow querying  
     d) SQL databases do not support transactions  
     **Answer: a**
20. Which of the following is NOT a cloud computing platform for hosting full-stack applications?  
     a) AWS  
     b) Firebase  
     c) DigitalOcean  
     d) VS Code  
     **Answer: d**