SYLLABUS FOR THE WRITTEN EXAM TOWARDS FULL STACK DEVELOPER POSITION PUBLISHED VIDE ADVERTISEMENT NO.2024/01 & 2024/02 DATED 08/02/2024

Front-End Development HTML (HyperText Markup Language) - Basic structure - Semantic elements - Forms and input elements
CSS (Cascading Style Sheets) - Selectors and specificity - Box model - Flexbox and Grid layout - Responsive design
JavaScript - Variables, data types, operators - Control structures (loops, conditionals) - Functions and scope - DOM manipulation - Asynchronous JavaScript (callbacks, promises, async/await)
Front-End Frameworks - Introduction to frameworks like React.js, Angular, or Vue.js - Components, props, state management
Version Control with Git - Basic commands - Branching and merging - GitHub or GitLab for collaboration
Back-End Development Server-Side Programming - Introduction to server-side languages (Node.js, Python, Java, etc.) - RESTful APIs - Handling HTTP requests

Databases
- Relational databases (SQL)
  - Structured Query Language (SQL)
  - MySQL, PostgreSQL, SQLite
- NoSQL databases (optional)
  - MongoDB, Firebase

Server-Side Frameworks
• Express.js (Node.js), Django (Python), Spring Boot (Java), etc.   • Routing, middleware, controllers
Authentication and Authorization
• User authentication (sessions, JWT)   • Role-based access control (RBAC)
Deployment and DevOps
• Cloud platforms (AWS, Azure, Google Cloud)   • Containerization (Docker)   • Continuous Integration/Continuous Deployment (CI/CD)