



Model Paper – 1 B. C. A. (Regular)

Subject: Fundamentals of Full Stack Web Development **Marks:** 25
Semester: 6th Semester **Academic Year:** 2025-26 **Seat No:**

Q-1(A) Multiple Choice Questions.(Any 4) [4 marks]

1. What is the purpose of CommonModule in a feature module?
 - (A) Provides HTTP services
 - (B) Provides common directives like nglf and ngFor
 - (C) Defines main component
 - (D) Handles routing
 2. What does CORS stand for?
 - (A) Cross-Origin Resource Sharing
 - (B) Cross-Origin Response System
 - (C) Client-Origin Routing System
 - (D) Code-Origin Resource Service
 3. Which package is commonly used for MongoDB in Node.js?
 - (A) mysql
 - (B) sequelize
 - (C) mongoose
 - (D) firebase
 4. Firebase Hosting is mainly used for:
 - (A) Backend APIs
 - (B) Deploying frontend applications
 - (C) Database management
 - (D) Machine learning
 5. Which Firebase SDK is used for backend operations in Express?
 - (A) Firebase Desktop SDK
 - (B) Firebase Admin SDK
 - (C) Firebase Client SDK
 - (D) Firebase UI SDK

Q-1 (B) Answer in Short(Any 4) [4 marks]

1. What is FormBuilder in Angular?
 2. What is OnPush change detection strategy?
 3. What is the purpose of nodemon?
 4. Write any one example of a route parameter in Express.js.
 5. What is the purpose of handling form submissions in Express?

Q-2 (A) What is middleware in Express.js? Explain the difference between built-in and custom middleware. [5 marks]

OR

- (A) How can Angular forms be integrated with Express APIs to send and receive data? Explain with examples.

Q-2 (B) Explain the purpose of routing in Angular. Also Explain lazy loading with an example of Admin and User feature modules. [4 marks]

Q-3 (A) Answer the Following (Any 2) [8 marks]

1. Explain CORS and environment variables in detail. Why are they important in API development?
 2. What is a Route Guard? Explain CanActivate and CanDeactivate with examples
 3. Explain the difference between ng-template, ng-container, and ng-content.