



**Model Paper – 1 B. C. A. (Regular)**

**Subject: Fundamentals of Full Stack Web Development**

**Marks: 25**

**Semester: 6<sup>th</sup> 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 ngIf 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.