### Q1. What is the primary purpose of Inversion of Control (IoC) in Spring?

- A) To manually create and manage objects
- B) To delegate object creation and lifecycle management to the framework
- C) To improve database performance
- D) To replace Java annotations

### Q2. Which of the following is NOT a type of Dependency Injection in Spring?

- A) Constructor Injection
- B) Setter Injection
- C) Field Injection
- D) Method Overloading Injection

### Q3. Which module is NOT part of the Spring Framework?

- A) Spring Core (IoC Container)
- B) Spring MVC
- C) Spring Boot
- D) Spring Data

### Q4. What is the philosophy behind Spring Boot?

- A) Manual configuration for every component
- B) Convention over Configuration
- C) Tight coupling between components
- D) No dependency management

# 5. Dependency Management with Maven

# Q5. Which file is used to define dependencies in a Maven-based Spring Boot project?

- A) build.gradle
- B) pom.xml
- C) package.json
- D) settings.xml

### Q6. Which of the following is NOT a feature of Spring Initializr?

- A) Generates a ready-to-run Spring Boot project
- B) Allows selecting dependencies (e.g., Spring Web, JPA)
- C) Requires manual XML configuration
- D) Supports Maven & Gradle builds

### Q7. Which bean scope creates a new instance every time it is requested?

- A) Singleton
- B) Prototype
- C) Request
- D) Session

### Q8. Which annotation is used for exception translation in database operations?

- A) @Service
- B) @Component
- C) @Repository
- D) @Autowired

## 9. Loose Coupling & Tight Coupling

### Q9. Which principle does Dependency Injection promote?

- A) Tight Coupling
- B) Loose Coupling
- C) No Coupling
- D) Hardcoding Dependencies

# 10. Spring Boot Auto-configuration

### Q10. What triggers Spring Boot auto-configuration?

- A) Manual XML configuration
- B) Presence of specific dependencies in the classpath
- C) Using @Autowired on all fields
- D) Avoiding @SpringBootApplication

# Q11. Which annotation is used to define a bean in a Spring configuration class? A) @Component B) @Service C) @Bean D) @Repository Q12. What does @SpringBootApplication combine? A) @Component, @Service, @Repository B) @Configuration, @EnableAutoConfiguration, @ComponentScan C) @Autowired, @Bean, @Scope D) @Controller, @RestController, @Service Q13. Which class simplifies JDBC operations in Spring? A) JdbcTemplate B) EntityManager

Q14. Which logging framework is used by default in Spring Boot?

Q15. Which is the recommended way to use @Autowired?

C) HibernateTemplate

C) Java Util Logging

A) Field Injection

B) Setter Injection

C) Constructor Injection

D) Method Overloading

D) SLF4J with Logback

D) DataSource

A) Log4j

B) Logback