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

C) HibernateTemplate

D) DataSource

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

A) Log4j

B) Logback

C) Java Util Logging

D) SLF4J with Logback

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

A) Field Injection

B) Setter Injection

C) Constructor Injection

D) Method Overloading