

## Assesment-2

### Spring Core

1. **Which of the following is not a core module of the Spring Framework?**
  - A. Spring AOP
  - B. Spring MVC
  - C. Spring ORM
  - D. Spring Data
  - **Answer: D**
2. **Which of the following is a benefit of using Spring Framework?**
  - A. Lightweight
  - B. Inversion of Control
  - C. Aspect-Oriented Programming
  - D. All of the above
  - **Answer: D**
3. **Which annotation is used to define a Spring bean?**
  - A. @Component
  - B. @Bean
  - C. @Service
  - D. All of the above
  - **Answer: D**
4. **What is the default scope of a Spring bean?**
  - A. Singleton
  - B. Prototype
  - C. Request
  - D. Session
  - **Answer: A**
5. **Which of the following is used for dependency injection in Spring?**
  - A. Constructor injection
  - B. Setter injection
  - C. Field injection
  - D. All of the above
  - **Answer: D**

### Spring JDBC

6. **Which class is used to simplify database operations in Spring JDBC?**
  - A. JdbcTemplate
  - B. HibernateTemplate
  - C. JpaTemplate
  - D. SqlTemplate
  - **Answer: A**

7. Which method in JdbcTemplate is used to execute a query that returns a single row?
- A. queryForMap
  - B. queryForObject
  - C. queryForList
  - D. execute
  - **Answer: B**
8. How do you handle exceptions in Spring JDBC?
- A. By using try-catch blocks
  - B. Using SQLExceptionTranslator
  - C. By implementing ErrorHandler
  - D. Using ExceptionHandler
  - **Answer: B**

## Spring MVC

9. Which annotation is used to mark a class as a Spring MVC controller?
- A. @Controller
  - B. @Service
  - C. @Repository
  - D. @Component
  - **Answer: A**
10. Which annotation is used to map a web request to a specific method in a controller?
- A. @RequestMapping
  - B. @GetMapping
  - C. @PostMapping
  - D. All of the above
  - **Answer: D**
11. Which of the following is a correct way to handle exceptions in Spring MVC?
- A. Using @ExceptionHandler
  - B. Using @ControllerAdvice
  - C. Using HandlerExceptionResolver
  - D. All of the above
  - **Answer: D**
12. What is the default return type of a controller method in Spring MVC?
- A. ModelAndView
  - B. String
  - C. void
  - D. Object
  - **Answer: B**

## Spring Security

13. Which of the following is not a core component of Spring Security?
- A. Authentication
  - B. Authorization

- C. Auditing
  - D. Encryption
  - **Answer: D**
14. Which filter is used by Spring Security to perform authentication?
- A. AuthenticationFilter
  - B. UsernamePasswordAuthenticationFilter
  - C. AuthorizationFilter
  - D. LoginFilter
  - **Answer: B**
15. How can you configure method-level security in Spring?
- A. Using @Secured
  - B. Using @PreAuthorize
  - C. Using @RolesAllowed
  - D. All of the above
  - **Answer: D**
16. Which annotation is used to enable Spring Security in a Spring Boot application?
- A. @EnableWebSecurity
  - B. @EnableSecurity
  - C. @EnableSpringSecurity
  - D. @EnableAuthorization
  - **Answer: A**

## Hibernate

17. Which of the following is not a Hibernate object state?
- A. Transient
  - B. Persistent
  - C. Detached
  - D. Static
  - **Answer: D**
18. Which method is used to save an object in Hibernate?
- A. save()
  - B. persist()
  - C. saveOrUpdate()
  - D. All of the above
  - **Answer: D**
19. Which of the following is used to configure Hibernate?
- A. hibernate.cfg.xml
  - B. hibernate.properties
  - C. Both A and B
  - D. None of the above
  - **Answer: C**
20. Which annotation is used to mark a class as an entity in Hibernate?
- A. @Entity
  - B. @Table
  - C. @MappedEntity

- D. @HibernateEntity
  - **Answer: C**
21. What is the default fetching strategy in Hibernate?
- A. Eager
  - B. Lazy
  - C. Immediate
  - D. Preload
  - **Answer: D**

## Spring Boot

22. Which annotation is used to enable Spring Boot auto-configuration?
- A. @EnableAutoConfiguration
  - B. @SpringBootApplication
  - C. @EnableConfiguration
  - D. @AutoConfiguration
  - **Answer: B**
23. How do you run a Spring Boot application?
- A. Using `java -jar`
  - B. Using `mvn spring-boot:run`
  - C. Using an IDE
  - D. All of the above
  - **Answer: D**
24. Which file is used to configure Spring Boot application settings?
- A. application.properties
  - B. application.yml
  - C. Both A and B
  - D. application.xml
  - **Answer: C**
25. Which dependency is used to create a Spring Boot project?
- A. spring-boot-starter
  - B. spring-boot-autoconfigure
  - C. spring-boot-starter-parent
  - D. spring-boot-application
  - **Answer: A**

## Maven

26. What is the default packaging type in Maven?
- A. jar
  - B. war
  - C. ear
  - D. pom
  - **Answer: A**
27. Which file is used to configure a Maven project?
- A. build.xml
  - B. project.xml

- C. pom.xml
  - D. settings.xml
  - **Answer: C**
28. Which Maven plugin is used to compile Java code?
- A. maven-compiler-plugin
  - B. maven-jar-plugin
  - C. maven-war-plugin
  - D. maven-assembly-plugin
  - **Answer: A**
29. Which of the following is not a build lifecycle in Maven?
- A. clean
  - B. validate
  - C. deploy
  - D. compile
  - **Answer: B**
30. Which of the following is used to specify a dependency in Maven?
- A. <dependency>
  - B. <include>
  - C. <require>
  - D. <use>
  - **Answer: A**

## Git

31. Which command is used to create a new Git repository?
- A. git init
  - B. git create
  - C. git new
  - D. git start
  - **Answer: A**
32. Which command is used to clone a Git repository?
- A. git copy
  - B. git clone
  - C. git pull
  - D. git download
  - **Answer: B**
33. Which command is used to stage changes for the next commit?
- A. git add
  - B. git commit
  - C. git push
  - D. git stage
  - **Answer: A**
34. Which command is used to view the commit history in Git?
- A. git history
  - B. git log
  - C. git status
  - D. git commits

- **Answer: B**
- 35. Which command is used to merge branches in Git?
  - A. git merge
  - B. git integrate
  - C. git join
  - D. git rebase
  - **Answer: A**

## Spring ORM with Hibernate

- 36. Which class is used as the central interface for Spring's Hibernate integration?
  - A. HibernateTemplate
  - B. HibernateManager
  - C. HibernateController
  - D. HibernateExecutor
  - **Answer: C**
- 37. Which method in HibernateTemplate is used to save an entity?
  - A. save
  - B. persist
  - C. saveOrUpdate
  - D. All of the above
  - **Answer: D**
- 38. Which transaction management type is recommended in Spring applications?
  - A. Programmatic
  - B. Declarative
  - C. Both A and B
  - D. None of the above
  - **Answer: B**
- 39. Which annotation is used to enable transaction management in Spring?
  - A. @EnableTransactionManagement
  - B. @Transaction
  - C. @Transactional
  - D. @TransactionManagement
  - **Answer: B**
- 40. How do you configure a DataSource in a Spring application?
  - A. Using Java configuration
  - B. Using XML configuration
  - C. Using application.properties or application.yml
  - D. All of the above
  - **Answer: D**