**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

1. **Which class is used to simplify database operations in Spring JDBC?**
   * A. JdbcTemplate
   * B. HibernateTemplate
   * C. JpaTemplate
   * D. SqlTemplate
   * **Answer: A**
2. **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**
3. **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: A**

### Spring MVC

1. **Which annotation is used to mark a class as a Spring MVC controller?**
   * A. @Controller
   * B. @Service
   * C. @Repository
   * D. @Component
   * **Answer: A**
2. **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**
3. **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**
4. **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

1. **Which of the following is not a core component of Spring Security?**
   * A. Authentication
   * B. Authorization
   * C. Auditing
   * D. Encryption
   * **Answer: C**
2. **Which filter is used by Spring Security to perform authentication?**
   * A. AuthenticationFilter
   * B. UsernamePasswordAuthenticationFilter
   * C. AuthorizationFilter
   * D. LoginFilter
   * **Answer: D**
3. **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**
4. **Which annotation is used to enable Spring Security in a Spring Boot application?**
   * A. @EnableWebSecurity
   * B. @EnableSecurity
   * C. @EnableSpringSecurity
   * D. @EnableAuthorization
   * **Answer: A**

### Hibernate

1. **Which of the following is not a Hibernate object state?**
   * A. Transient
   * B. Persistent
   * C. Detached
   * D. Static
   * **Answer: C**
2. **Which method is used to save an object in Hibernate?**
   * A. save()
   * B. persist()
   * C. saveOrUpdate()
   * D. All of the above
   * **Answer: D**
3. **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**
4. **Which annotation is used to mark a class as an entity in Hibernate?**
   * A. @Entity
   * B. @Table
   * C. @MappedEntity
   * D. @HibernateEntity
   * **Answer: A**
5. **What is the default fetching strategy in Hibernate?**
   * A. Eager
   * B. Lazy
   * C. Immediate
   * D. Preload
   * **Answer: C**

### Spring Boot

1. **Which annotation is used to enable Spring Boot auto-configuration?**
   * A. @EnableAutoConfiguration
   * B. @SpringBootApplication
   * C. @EnableConfiguration
   * D. @AutoConfiguration
   * **Answer: B**
2. **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**
3. **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**
4. **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

1. **What is the default packaging type in Maven?**
   * A. jar
   * B. war
   * C. ear
   * D. pom
   * **Answer: A**
2. **Which file is used to configure a Maven project?**
   * A. build.xml
   * B. project.xml
   * C. pom.xml
   * D. settings.xml
   * **Answer: C**
3. **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**
4. **Which of the following is not a build lifecycle in Maven?**
   * A. clean
   * B. validate
   * C. deploy
   * D. compile
   * **Answer: B**
5. **Which of the following is used to specify a dependency in Maven?**
   * A. <dependency>
   * B. <include>
   * C. <require>
   * D. <use>
   * **Answer: A**

### Git

1. **Which command is used to create a new Git repository?**
   * A. git init
   * B. git create
   * C. git new
   * D. git start
   * **Answer: A**
2. **Which command is used to clone a Git repository?**
   * A. git copy
   * B. git clone
   * C. git pull
   * D. git download
   * **Answer: B**
3. **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**
4. **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**
5. **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

1. **Which class is used as the central interface for Spring's Hibernate integration?**
   * A. HibernateTemplate
   * B. HibernateManager
   * C. HibernateController
   * D. HibernateExecutor
   * **Answer: A**
2. **Which method in HibernateTemplate is used to save an entity?**
   * A. save
   * B. persist
   * C. saveOrUpdate
   * D. All of the above
   * **Answer: D**
3. **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**
4. **Which annotation is used to enable transaction management in Spring?**
   * A. @EnableTransactionManagement
   * B. @Transaction
   * C. @Transactional
   * D. @TransactionManagement
   * **Answer: A**
5. **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**