

# Java, Spring, Spring Boot, Microservices Mock Test-3

✓ **Correct**

Which of the following is true about @Component annotation?

- ☐ It is used to define a service class.
- ☒ It is used to define a bean in the application context.
- ☐ It is specific to Spring MVC.
- ☐ It is used for security configurations.

✓ **Correct**

Which method in ApplicationContext is used to retrieve a bean?

- ☐ getBeanDefinition()
- ☐ getInstance()
- ☒ getBean()
- ☐ getContext()

✓ **Correct**

Which annotation is used to map a REST controller method to a URL?

- ☐ @RestController

☒ @RequestMapping

☐ @PathVariable

☐ @ModelAttribute

✓ **Correct**

What is the default status code returned by @ResponseStatus?

☒ 200 OK

☐ 404 Not Found

☐ 201 Created

☐ 204 No

✓ **Correct**

Which annotation is used to expose a Spring Data repository as a REST resource?

☐ @RestController

☒ @RepositoryRestResource

☐ @RestResource

☐ @RequestBody

✓ **Correct**

What is the default base path for Spring Data REST endpoints?

☐ /data

- ☐ /api
- ☐ /repository
- ☒ /

✓ **Correct**

Which file is used to configure properties in a Spring Boot application?

- ☐ application.xml
- ☒ [application.properties](#)
- ☐ config.yml
- ☐ settings.xml

✓ **Correct**

Which annotation enables Spring Boot's auto-configuration feature?

- ☒ @SpringBootApplication
- ☐ @Configuration
- ☐ @EnableAutoConfiguration
- ☐ @ComponentScan

✓ **Correct**

Which component in Spring Cloud provides centralized configuration?

☒ Config Server

☐ Eureka Server

☐ Zuul

☐ Hystrix

✓ **Correct**

Which annotation is used to enable a Spring Boot application to act as a discovery client?

☐ @EnableEurekaClient

☒ @EnableDiscoveryClient

☐ @EnableConfigClient

☐ @EnableFeignClient

✓ **Correct**

Which of the following is not a core concept of Spring Security?

☐ Authentication

☐ Authorization

☒ Encryption

☐ Session Management

✓ **Correct**

Which filter is responsible for basic authentication in Spring Security?

- ☒ BasicAuthenticationFilter
- ☐ UsernamePasswordAuthenticationFilter
- ☐ FilterChainProxy
- ☐ AuthorizationFilter

✓ **Correct**

Which of the following tools is used for service discovery in microservices architecture?

- ☐ Kubernetes
- ☒ Eureka
- ☐ Jenkins
- ☐ Prometheus

✓ **Correct**

Which pattern is used to prevent a single service failure from cascading failures in microservices?

- ☒ Circuit Breaker
- ☐ Proxy Pattern
- ☐ Singleton Pattern
- ☐ Adapter Pattern

✓ **Correct**

Which of the following is a popular API Gateway solution?

- ☒ Zuul
- ☐ Grafana
- ☐ Kafka
- ☐ RabbitMQ

✓ **Correct**

Which of the following is not a feature of an API Gateway?

- ☐ Rate Limiting
- ☐ Request Routing
- ☒ Data Storage
- ☐ Authentication

✓ **Correct**

Which annotation is used to indicate a test method in JUnit 5?

- ☐ @TestCase
- ☒ @Test
- ☐ @RunWith

☐ @BeforeEach

✓ **Correct**

What is the purpose of the `assertThrows` method in JUnit 5?

- ☐ To assert exceptions are not thrown
- ☒ To assert exceptions are thrown
- ☐ To skip a test case
- ☐ To verify test order

✓ **Correct**

Which of the following is used to verify behavior in Mockito?

- ☐ when
- ☐ thenReturn
- ☒ verify
- ☐ spy

✓ **Correct**

Which method is used to mock a dependency in Mockito?

- ☒ `mock()`
- ☐ `create()`
- ☐ `stub()`

☐ mockito()

✓ **Correct**

Which feature of OOP allows a class to use the properties and methods of another class?

☐ Polymorphism

☒ Inheritance

☐ Encapsulation

☐ Abstraction

✓ **Correct**

Which of the following is not a pillar of OOP?

☐ Inheritance

☐ Polymorphism

☒ Concurrency

☐ Encapsulation

✓ **Correct**

Which interface does HashSet implement?

☐ List

☐ Queue



☒ Set

☐ Map

✓ **Correct**

Which of the following allows duplicate elements?

☐ HashSet

☐ TreeSet

☒ ArrayList

☐ LinkedHashSet

✓ **Correct**

Which of the following is a checked exception?

☐ NullPointerException

☒ IOException

☐ ArrayIndexOutOfBoundsException

☐ ArithmeticException

✓ **Correct**

Which method in Java 8 Streams is used to transform elements of a stream?

☐ filter

☒ map

☐ forEach

☐ collect

✓ **Correct**

Which terminal operation converts a stream into a List?

☐ toList()

☒ collect(Collectors.toList())

☐ toArray()

☐ reduce()

✓ **Correct**

Stream.of(1, 2, 3, 4).reduce(0, Integer::sum);

☐ Finds the maximum value in the stream

☒ Sums all elements in the stream

☐ Multiplies all elements in the stream

☐ Throws an exception

✓ **Correct**

In JPA, which annotation is used to define a primary key?

☐ @PrimaryKey

☒ @Id

☐ @GeneratedValue

☐ @Column

✓ **Correct**

What is the purpose of the @Query annotation in Spring Data JPA?

☐ To execute native SQL queries

☒ To define custom JPQL or SQL queries

☐ To perform CRUD operations

☐ To map entity relationships

✓ **Correct**

Which annotation is used in Spring Boot to specify application properties?

☒ @ConfigurationProperties

☐ @PropertySource

☐ @Value

☐ @PropertyScan

✓ **Correct**

Which microservices pattern is implemented by Netflix Zuul?

☐ Circuit Breaker

- ☒ API Gateway
- ☐ Service Registry
- ☐ Load Balancer

✓ **Correct**

In Spring Boot, which starter dependency is used for web applications?

- ☐ spring-boot-starter-data-jpa
- ☒ spring-boot-starter-web
- ☐ spring-boot-starter-test
- ☐ spring-boot-starter-security

✓ **Correct**

What does @Entity annotation indicate in JPA?

- ☒ Marks a class as a database table
- ☐ Marks a class as a service
- ☐ Marks a method as a transaction
- ☐ Marks a variable as a primary key

✓ **Correct**

Which of the following is an intermediate operation in Java Streams?

- ☐ reduce()

- ☒ map()
- ☐ forEach()
- ☐ count()

✓ **Correct**

What is the output of the following code snippet? `List<Integer> numbers = Arrays.asList(1, 2, 3, 4, 5); numbers.stream\(\).filter(n -> n % 2 == 0).forEach(System.out::print);`

- ☐ 12345
- ☐ 2 4
- ☒ 24
- ☐ Compilation error

✓ **Correct**

Which annotation in Spring enables scheduling tasks?

- ☒ @EnableScheduling
- ☐ @Schedule
- ☐ @ScheduledTask
- ☐ @TaskScheduler

✓ **Correct**

Which method in `CrudRepository` is used to save an entity?

- ☐ persist()
- ☒ save()
- ☐ merge()
- ☐ update()

✓ **Correct**

In Spring, how do you handle a BeanCreationException?

- ☐ By using @RestControllerAdvice
- ☐ By providing a @Bean definition
- ☒ By using @ExceptionHandler
- ☐ By reloading the application context

✓ **Correct**

What does @Transactional annotation do in Spring?

- ☒ Starts a transaction
- ☐ Creates a new service bean
- ☐ Fetches lazy-loaded entities
- ☐ Scans for properties

✓ **Correct**

What is the role of Feign in microservices?

- ☐ Service registration
- ☐ API Gateway
- ☒ Declarative REST client
- ☐ Circuit breaker

✓ **Correct**

Which of the following methods checks if any element matches a condition in a stream?

- ☒ anyMatch()
- ☐ allMatch()
- ☐ noneMatch()
- ☐ findFirst()

✓ **Correct**

Which annotation is used to validate method arguments in Spring?

- ☒ @Valid
- ☐ @Validated
- ☐ @RequestBody
- ☐ @Service

✓ **Correct**

48. @Query("SELECT u FROM User u WHERE u.name = :name") List<User>

- ☒ List of User entities with the specified name
- ☐ A single user object
- ☐ A map of user names
- ☐ The first user record found

✓ **Correct**

What is the purpose of @Repository annotation in Spring?

- ☐ To indicate a class is a service
- ☐ To indicate a class is a controller
- ☒ To indicate a class provides CRUD operations
- ☐ To enable scheduling

✓ **Correct**

In Java 8, which method converts a stream into a Map?

- ☒ collect(Collectors.toMap())
- ☐ map()
- ☐ filter()
- ☐ reduce()



✓ **Correct**

Which Spring Boot annotation can be used to test REST controllers?

- ☒ @WebMvcTest
- ☐ @SpringBootTest
- ☐ @DataJpaTest
- ☐ @RestControllerTest

✓ **Correct**

Which annotation is used in Spring Cloud for load balancing REST calls?

- ☒ @LoadBalanced
- ☐ @CircuitBreaker
- ☐ @RibbonClient
- ☐ @HystrixCommand

✓ **Correct**

**In PostgreSQL, which of the following clauses is used to filter results based on a specific condition after grouping records?**

- ☒ Having
- ☐ Where
- ☐ Group By

☐ Order by

✓ **Correct**

**Which of the following PostgreSQL data types is used to store unique identifiers?**

- ☐ SERIAL
- ☒ UUID
- ☐ VARCHAR
- ☐ TEXT

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