

P6_A_Spring & Microservices_Formative_Assessment_2nd

Points: 18/26

Time: 13:26

✓ **Correct** 1/1 Points

1. Which ensures to insulate the applications by acting as a barrier *

- ☐ Microservice chassis
- ☐ Service deployment
- ☒ API gateway
- ☐ Security control

✓ **Correct** 1/1 Points

2. Microservice is considered as a subset of SOA *

- ☒ True
- ☐ False
- ☐ Often
- ☐ Sometimes

✓ **Correct** 1/1 Points

3. Which helps to control and limit the number of consecutive request failure that cross a threshold. *

- ☒ Circuit breaker
- ☐ Service deployment
- ☐ Review breaker
- ☐ Microservice chassis

✓ **Correct** 1/1 Points

4. The two types of service discovery includes client-side discovery and server-side discovery *

- ☐ False
- ☒ True

✓ **Correct** 1/1 Points

5. What strategy is commonly used for generating primary keys in JPA entities? *

- ☐ @PrimaryKey
- ☒ @GeneratedValue
- ☐ @SequenceGenerator
- ☐ @TableGenerator

✓ **Correct** 1/1 Points

6. Which of the following is NOT a resilience module provided by Resilience4j? *

- ☒ Queue Management
- ☐ Circuit Breaker
- ☐ Retry
- ☐ Rate Limiter

✓ **Correct** 1/1 Points

7. Spring Boot is used for developing *

- ☐ Web applications
- ☐ Distributed applications (Restful web services)
- ☐ Microservices
- ☒ All of the options

✗ **Incorrect** 0/1 Points

8. Spring Initializer *

- ☐ A tool for initializing a Spring-based application with a specific set of dependencies
- ☐ A web-based tool for generating a basic Spring Boot project structure
- ☐ A command-line tool for generating a basic Spring Boot project structure
- ☐ Option 2

☒ A tool for creating a Spring Boot application with a specific set of features

✗ **Incorrect** 0/1 Points

9. Purpose of the Spring Boot DevTools *

- ☐ To provide hot-reloading of code changes
- ☒ To provide a way to run Spring Boot applications in a development environment
- ☐ To provide a way to run Spring Boot applications as a service
- ☐ To provide a way to access the underlying database of a Spring Boot application

✓ **Correct** 1/1 Points

10. What annotation can be used to integrate Resilience4j with a method in Spring for managing resilience? *

- ☐ @Resilience4j
- ☒ @CircuitBreaker
- ☐ @Fallback
- ☐ @RetryOnFailure

✗ **Incorrect** 0/1 Points

11. *Identify the key aspects for successful service discovery solution.* *

- ☐ consistency of information across the instances
- ☒ Service lookup



Service registration



Service discovery

✓ **Correct** 1/1 Points

12. Actuator Dependency *

- ☐ spring-boot-actuator
- ☒ spring-boot-starter-actuator
- ☐ springboot-starter-actuator
- ☐ Spring-Boot-Starter-Actuator

✓ **Correct** 1/1 Points

13. @RestController annotation is a combination of the below two annotations *

- ☐ @Rest and @ResponseBody annotations
- ☐ @Component and @ResponseBody annotations
- ☐ @Service and @ResponseBody annotations
- ☒ @Controller and @ResponseBody annotations

✓ **Correct** 1/1 Points

14. What annotation is used to map value to the method argument in <http://localhost/factorial/{value}>. *

- ☐ @RequestParam

- ☐ @Param
- ☒ @PathVariable
- ☐ @Map

✗ **Incorrect** 0/1 Points

15. Annotation enables the auto-configuration of Spring ApplicationContext by scanning the classpath components and registering the beans *

- ☐ @EnableAutoConfiguration
- ☒ @SpringBootConfiguration
- ☐ @EnableAutoComponentScan
- ☐ @EnableJavaConfiguration

✓ **Correct** 1/1 Points

16. Which method is used in a Spring Data JPA repository to retrieve all records of an entity?

*

- ☒ findAll()
- ☐ getAll()
- ☐ retrieveAll()
- ☐ fetchRecords()

✗ **Incorrect** 0/1 Points

17. What is the built-in library in Spring Boot used to serialize objects to JSON format *

- ☐ Jackson
- ☐ Gson
- ☐ MessageConverter
- ☒ JsonFormatter

✓ **Correct** 1/1 Points

18. Which starter dependency is used to develop web applications or Restful web services? *

- ☐ spring-boot-starter-rest
- ☐ spring-boot-starter-restful
- ☒ spring-boot-starter-web
- ☐ spring-boot-starter-data-jpa

✓ **Correct** 1/1 Points

19. External clients communicate with microservices using *

- ☐ Messaging
- ☒ API Gateway
- ☐ API Proxy

☐ API

✓ **Correct** 1/1 Points

20. What is the difference between PUT and PATCH in REST API *

- ☐ PUT is used to delete the resource, while PATCH is used to update the resource
- ☐ PUT is used to update the resource, while PATCH is used to create a resource
- ☒ PUT completely replaces the resource, while PATCH modifies only the fields specified in the request body
- ☐ PUT is used to retrieve data, while PATCH is used to update data

✓ **Correct** 1/1 Points

21. Which annotation is used to mark an entity class in Spring Data JPA? *

- ☐ @EntityMapping
- ☐ @EntityClass
- ☒ @Entity
- ☐ @Persistence

✗ **Incorrect** 0/1 Points

22. Which actuator endpoint displays arbitrary application information *

- ☐ /metric
- ☐ /info

☒ /health☐ /trace

✓ **Correct** 1/1 Points

23. For an entity class Car(id, model,year) which of these methods are automatically synthesised in JpaRepository *

☐ findCarByModel☐ findModel☐ findByModelAndIdAndYear☒ findByModel

✓ **Correct** 1/1 Points

24. What *acts as a database of services* their instances and corresponding location. *

☐ Data Management☐ Domain Registry☐ Service Deployment☒ Service Registry

✗ **Incorrect** 0/1 Points

25. Which concept in Spring Cloud Gateway allows the modification of incoming and outgoing requests? *

☐ Filters

- ☐ Interceptors
- ☐ Transformers
- ☒ Handlers

✗ **Incorrect** 0/1 Points

26. What is the difference between Spring and Spring Boot *

- ☐ Spring Boot is a front-end framework, while Spring is a back-end framework
- ☐ Spring is a Java framework, while Spring Boot is a Java library
- ☐ Spring Boot is an opinionated version of Spring, providing a set of default configurations
- ☒ Spring Boot is a lightweight version of Spring, while Spring is a full-featured framework

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