**Q1. Microservices is most closely related to what other established acronym?**

A. [API](https://searchexchange.techtarget.com/definition/application-program-interface)

B. AWS

C. SOA

D. [PaaS](https://searchcloudcomputing.techtarget.com/definition/Platform-as-a-Service-PaaS)

ANS : C

Q2. **What are the advantages of using cloud computing?**

1. Data backup and storage of data
2. Powerful server capabilities

C       SaaS ( Software as a service)

1. All of The Above

ANS : D

Q3. The different deployment models in cloud computing are

a)      Private Cloud

b)      Public Cloud

c)       Archive Cloud

d)      Hybrid Cloud

ANS : A,B,D

Q4. The open source cloud computing platform databases are

a)      MongoDB

b)      CouchDB

c)      MYSQLDB

d) ORACLEDB

ANS : a,b

Q5. different layers of cloud computing are:

A. SaaS: Software as a Service (SaaS), it provides users access directly to the cloud application without installing anything on the system.

b)      IaaS: Infrastructure as a service, it provides the infrastructure in terms of hardware like memory, processor speed etc.

c)       PaaS: Platform as a service, it provides cloud application platform for the developers

d) CaaS: Cloud as a Service

ANS : A,B,C

Q6. Which of the following is not part of the concepts related to Spring Boot technology?

* 1. Spring Boot is based on Microservices architecture, with it, you can easily create complete applications with minimal effort since its convention-based philosophy eliminates the need for most configurations.
  2. The use of xml for configuring a project with Spring Boot is almost minimal. In addition, Spring Boot has an embedded version of Tomcat.
  3. Each project created with Spring Boot has a main class with a method that tells Spring Boot to start the application using the settings contained in it.
  4. The type of packaging allowed in the Spring Boot is only of the type war. Any other type of declared packaging in the pom.xml file will result in project compilation errors.

ANS : d

Q7. To publish a REST service with Spring.  
a) publishing an application’s data as a REST service  
b) accessing data from third-party REST services  
c) none of the mentioned  
d) all of the mentioned

ANS : D

Q8. Publishing an application’s data as a REST service requires.  
a) @RequestMapping  
b) @PathVariable  
c) All of the mentioned  
d) None of the mentioned

ANS : c

Q9. Accessing a third-party REST service inside a Spring application.  
a) RestTemplate Class  
b) ViewResolver  
c) InternalViewResolver  
d) View

ANS : a

Q10. REST service end point comprises an address.  
a) starts with http:// and ends with ?  
b) starts with http:// and ends with &  
c) no certain URL is specified  
d) depends upon the platform used

ANS :a

Q11. Payload format for REST services.  
a) RSS  
b) Atom  
c) JSON  
d) All of the mentioned

ANS : d

Q 12. What scope should you set on the spring test dependency in the maven pom.xml file?

1. You don't need to add a scope
2. <scope>compile</scope>
3. <scope>default</scope>
4. <scope>test</scope>

ANS : D

Q 13 Annotation used for Creating RESTFul resource:

1. Controller
2. Service
3. RestController
4. Repository

ANS C

Q 14. The ModelAttribtue annotation is used when we want to:

1. send data to our Controller.
2. retrieve data from our Controller.
3. send and Retrieve data from our Controller.

ANS : C

Q 15. ViewResolver used for marshalling and unmarshalling JSON ,XML ViewResolve used is

1. JsonViewResolver
2. XMLView Resolver
3. ContentNegotaitingViewResolver
4. JacksonViewResolver

ANS : C

Q 16. Front Controller Used to Configure Spring MVC?

1. MVCServlet
2. DispatcherServlet
3. ControllerServlet
4. ViewServlet

ANS : B

Q 17. What are the 5 scopes available for a Spring Bean:

1. Singleton, Prototype, Request, Session, GlobalSession
2. Singleton, Prototype, Factory, AbstractFactory, Observer
3. Factory, AbstractFactory, Façade,Singleton
4. Factory, AbstractFactory, Application

ANS A

Q 18. Is it enough to just annotate a class with @Aspect to make it a Spring Bean?

1. It will become a Spring Bean anyway
2. Yes - use an include filter (type annotation, expression org.aspectj.lang.annotation.Aspect)
3. No - you will need to add @Component

ANS : B

Q 19. When following the Dependency Inversion Principle, dependencies between layers flow from

1. Business Layer to UI Layer to Database
2. UI Layer to Business Layer to Data Access Layer to Database
3. UI Layer to Database

ANS : B

Q 20. When the Open/Closed Principle is applied, new behavior can be added to our application by

1. Writing new classes without touching existing classes
2. Opening the class that needs to change, updating it, and then closing it again
3. Adding new parameters to methods
4. Adding new cases or elses to switch or if statements

ANS : A

Q 21. The Single Responsibility Principle can be summarized as:

1. Simple applications should do one thing well
2. Segregate responsibilities using simple interfaces
3. Static methods should have a single responsibility
4. There should never be more than one reason for a class to change

ANS D

Q 22. When the Open/Closed Principle is applied, new behavior can be added to our application by

1. Opening the class that needs to change, updating it, and then closing it again
2. Adding new cases or elses to switch or if statements
3. Writing new classes without touching existing classes
4. Adding new parameters to methods

ANS : C

Q 23. What type should the initial high-level design be for a greenfield microservices system?

1. Minature
2. Micro
3. Monolithic
4. Autonomous
5. Observable

ANS : C

Q 24. Traditional software architecture with a large code base is known as a...?

1. Continous integration system
2. Monolithic type system
3. Command line level system
4. Microservices type system

ANS : B

Q 25. What microservice design principle dictates that a service should have centralized logging?

1. High Cohesion
2. Resilience
3. Automation
4. Observable

ANS : D

Q 26. What microservice design principle dictates that tools should be used for quick deployment?

1. Autonomous
2. Observable
3. Automation
4. Resilience

ANS : C

Q 27. To make microservices architecture more resilient, you should design the service to cater to...

1. Config files
2. Shared databases
3. Software viruses
4. Synchronous communication
5. Known failures and connection timeouts

ANS : E

Q 28. \_\_\_\_\_\_ is designed to be a remote procedure call for the web.

1. REST
2. JSON
3. SOAP
4. HTML

ANS : SOAP

Q 29. What answer best describes a resource?

1. A map between a concept and a set of entities
2. A URL
3. A remote document
4. An entity in a data store

ANS : A

Q 30. What is REST?

1. Programming framework
2. Architectural style
3. Technique for reducing stress
4. Design specification

ANS : B

Q 31. What is the contract between clients and services in REST?

1. The uniform interface
2. A legal document
3. The HTTP specification
4. A service description document

ANS : A

Q 32. What does REST evoke?

1. The idea that applications should be built using standards
2. An image of how a well-designed web application behaves
3. An image how all APIs should be built

ANS : C

Q 33. What status code can you use to report validation errors?

1. 204 - No Content
2. 422 - Unprocessable Entity
3. Any of these will do
4. 500 - Internal Server Error

ANS : B

Q 34. Which status code should be returned after a successful POST request?

1. 204
2. 200
3. 201
4. 500

ANS : C

Q 35. **How Will You Monitor Multiple Microservices For Various Indicators Like Health?**

A. Sleuth

B. Hystrix

C. Zipkin

D. Traceur

ANS : C

Q 36. Microservice Service Registration is implemented Using

A. ZUUL

B. ZIPKIN

C. EUREKA

D. HYSTRIX

ANS : C

Q 37. Microservices based architecture needs Dynamic Load Balancer and it is implemented Using

A. RIBBON

B. ZOOKEEPER

C. CONSUUL

D. FEIGN

ANS : A

Q 38. Which of the following options presents an incorrect concept about Spring Cloud Security?

1. - Integration with Spring Security  
    - Integration with OAuth2
2. - Integration with OpenID  
    - Integration with Google Web Toolkit
3. - Protection of services with tokens (JWT)
4. - SSO with OAuth2 and OpenID Connect

ANS B

### Q 39. Popular Microservice patterns

1. Routing Pattern
2. Node Pattern
3. Security Pattern
4. Client resiliency pattern

### ANS : A,C,D

### Q 40. use of spring cloud stream

1. integrate microservices with message brokers
2. integrate microservices with naming registry
3. integrate microservices for Logging
4. integrate microservices with OAUTH2

ANS : A

### Q 41. What is the annotation to make enable spring boot application for spring cloud config server ?

1. @EnableConfiguration
2. @EnableCloudConfigServer
3. @EnableConfigServer
4. @EnableCloudConfiguration

ANS : C

### Q 42. What annotation is required to make a service as Cloud registry service

1. @EnableEurekaServer
2. @EnableConsuulServer
3. @EnableZookeeperServer
4. @EnableRegistryServer

ANS : A

### Q 43 The Role of a Circuit breakers is ?

1. It stops client service and other remote service if remote service is repeatedly failing.
2. It stops client to call remote service if remote service is repeatedly failing.
3. It stops client to call remote service and shuts all the other microservices
4. It simplifies microservice communication

ANS : A

### Q 44. What type of filters are supported by Zuul ?

1. Pre filters
2. Post filters
3. Route filters
4. Action Filter

ANS : A,B,C

### Q 45. Is spring boot application server

A. TRUE

B. FALSE

ANS : B

### Q 46. What type of virtualization does docker use

1. Software
2. HARDWARE
3. MIDDLEWARE
4. DATABASE

ANS : A

### Q 47. What are docker states

1. Running
2. Paused
3. ACTIVATED
4. SLEEP

ANS : A,B

### Q 48. maven creates a folder and file by default choose the correct

1. maven creates one src folder and pom.xml file under project
2. maven creates one dist folder and maven.xml file under project
3. maven creates one test folder and test.xml file under project
4. maven creates one web folder and web.xml file under project

ANS : A

### Q 49.  phases of maven build life cycle

1. validate , compile , test ,package,verify,install
2. start , stop, execute
3. perform,pause,execute,destroy
4. perform ,execute,destroy

ANS : A

### Q 50. Continuous Integration is

1. Building software and do subsequent testing on every code change.It is done to ensure that after every code change there is no issue in software.
2. Building software and do subsequent integration testing ensure that after every code change there is no issue in software.
3. Building software and deploy every code change.It is done to ensure that after every code change there is no issue in software.
4. Building software and run on every code change.It is done to ensure that after every code change there is no issue in software.

ANS : A