# SDM Sample Questions

1. What is the basic operational unit of kubernetes?
a. Task
b. Nodes
c. Pod
d. Container

2. Principle 1,8,9,10 of the agile manifesto describe prioritizing high value work. What is a common way that agile teams prioritize their work?
a. They create a ranked list of what the customer finds valuable
b. They create detailed project requirements
c. They meet with the customer to plan everything in the product before they start working.
d. They prioritize the work that would be easiest to develop.

3. The ability to scale in microservises architecture comes from the fact _____
a. CI/CD pipelines allow for scaling
b. There are more CPU and memory footprints in cloud providers
c. RESTful calls are always used.
d. Artifacts are single purpose and separated.

4. DevOps is an extension of _____
a. QA
b. Agile
c. Waterfall
d. None of the above

5. Which of the following Agile methodology advocates the use of problem domain?
a. Evo
b. Scrum
c. Extreme Programming(XP)
d. Feature driven development(FDD)

6. _____provides complete isolation from the host operating system and the other virtual Machines(VMs), so it is fully secure.
a. Virtualization
b. Containerization
c. Security
d. Cloud

7. Which one of the following is delivered at the end of the Sprint?
a. A document containing test cases fir the current sprint
b. An architectural design of the solution
c. Wireframes designs for User Interface
d. An increment of done software

8. Which of the following AWS services enables users to launch VM instances?
a. AWS EC2
b. AWS S3
c. AWS Lambda
d. AWS EBS

9. Which feature of OOP's helps in code reusability?
a. Class
b. Abstraction
c. Inheritance
d. Object

10. Which of the following languages is supported by Selenium WebDriver?
a. Perl
b. C
c. Asp
d. C++

11. What is true of Protocol Aware Heterogeneous Interoperability for microservices?
a. Systems call other systems to do work
b. All communications within the service boundaries are solved via ReST.
c. All communication use any technology they want
d. There is polyglot  development everywhere

12. Which of the following is the git command to download all the objects and references from a specific repository?
a. git log –n
b. git fetch
c. git help
d. git config –list

13. Some of the Agile frameworks are_____
a. Scrum and Canban
b. Test given development
c. Feature given development

d. Dynamic System development method

14. Which of the following Docker command is used to access the running container
a. docker run
b. docker exec
c. docker build
d. docker pull

15. Which of the following command create an empty get repository or reinitialize an existing one?
a. git create
b. git init
c. git initialize
d. git launch

16. Which of the following is not a goal of the WebDriver API?
a. Emulate actions of users
b. Provide record and playback of test steps
c. Maintain a standardized API
d. Help developers and testers quickly and easily write automated tests

17. Which of the following statements is true for and API gateway?
a. API gateway is not the single entry point into a system
b. API gateway is not responsible for request routing
c. API gateway is a server
d. API gateway is not responsible for load balancing

18. Under which type of thinking strategy does Brainstorming fall?
a. Decision thinking
b. Analytic thinking
c. Compassionate thinking
d. Creative thinking

19. In WebDriver _____ command  can be used to enter values onto text boxex?
a. selenium.type()
b. type()
c. sendKeys("text")
d. driver.type("text")

20. Which of the following type of virtualization is also characteristics of cloud computing?
a. Storage

b. Application

c. CPU

d. **All of the above**

21. For project management, Jira is used for_____

a. Segmenting, executing, accounting and reporting

b. **Planning, tracking, reporting and releasing**

c. Brainstorming, exploring, planning and executing

d. Motivating, grouping, analyzing and plotting

22. At the core of a good regression test, we are making certain that_____

a. No bugs exist

b. **All bugs are fixed**

c. Nothing new has broken

d. New bugs are identified

23. What is the practice of every change going through full automated testing and being deployed automatically to the production environment?

a. Continuous integration

b. Continuous delivery

c. Continuous denigration

d. **Continuous deployment**

24. What is the ideal sprint length in an Agile Development Model?

a. **2-4 weeks**

b. 1 week

c. 3-5 weeks

d. 3-weeks

25. What is unique about Docker swarm?

a. Docker swarm uses a MCP or Master Control program to orchestrate system access

b. **Docker swarm is much more decentralized than the other container platforms**

c. Docker swarm is more centralized than the other platforms

d. Docker swarm can run both VMs and containers

26. Match the following types of Testing with their appropriate description:

| 1 | Black Box testing | A | Also known as structural testing |
|---|---|---|---|
| 2 | White box testing | B | Also known as Translucent Testing |
| 3 | Grey box testing | C | Also known as functional testing |

a. **1-C,2-A,3-B**

b. 1-B,2-C,3-A

c. 1-A,2-B,3-C
d. 1-B,2-A,3-C

27. Which of the following architectural layer is used as front end in cloud computing?
a. Cloud
b. Client
c. Middle layer
d. Soft

28. What is the need for DevOps?
a. Decrease deployment frequency
b. Lower success rate of new releases
c. Longer deployment cycle
d. Enhanced version control

29. Which is true about Kubernetes?
a. Integrated Kubernetes solutions are available from most major cloud providers
b. Kubernetes is best suited to test environments and is not mature enough for production use
c. Kubernetes is one of the newest orchestration platform
d. It can only run kubernetes containers

30. Which of the following activities is NOT fundamental to software engineering?
a. Software standardization
b. Software specification
c. Software validation
d. Software evolution

31. _____is responsible for full software development life cycle while _____is responsible for software testing life cycle.
a. Quality Assurance, Quality control
b. Quality control, Quality Assurance
c. Quality assertion, Quality Control
d. Quality Control, Quality Assertion

32. Which command is used to push the code into git staging area?
a. Git pull
b. Git add
c. Git push
d. Git commit

33. Which of the following is not a version control system tool?
a. Git
b. Mercurial
c. Jenkins
d. AWS code Commit

34. In YAML ,explicit tags are denoted using symbol?
a. Exclamation point(!)
b. Pipe character(|)
c. Greater than symbol(>)
d. Question mark(?)

35. Which one of the following technique is applied for usability testing?
a. White Box
b. Black Box
c. Gery Box
d. All of the above

36. In Jenkins , a_____is used to display record of multiple builds.
a. Weather icon
b. Coloured icon
c. Coloured square
d. Coloured ball and Weather icon

37. Which of the following is NOT a property of the Waterfall model?
a. Software development cascades from one phase to another
b. It is a plan driven process
c. Software development is incremental in nature
d. Iterations can be costly and involve significant rework.

38. What comprises an Infrastructure as Service(IaaS) model?
a. Third-party improvements with software and hardware, which are difficult to offer when hosted internally.
b. Increased speed and virtualization for an organization
c. Third-party provider that hosts, services and maintains all aspects of the system on behalf of the end user
d. Increased help on logic and coding issues for an organization's proprietary system.

39. Which of the following views cannot be captured using UML diagram?
a. Layer View
b. User view

c. Structural view

d. All of the above

40. White box techniques are also classified as _____

a. Design Based testing

b. Structural Testing

c. Error Guessing Testing

d. None of the above