

CCEE Exam Sample Paper

Module Name Software Engineering Concepts

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1. Who is attributed with inventing git?

- a. Junio C. Hamano
- b. James Gosling
- c. Kohsuka Kawaguchi
- d. Linus Torvalds

2. Which of these terms best describes GitHub?

- a. Integrated Development Environment
- b. Distributed Version Control System
- c. Issue Tracking System
- d. Web-Based Repository Hosting Service

3. To make a new git branch, the git command is?

- a. Git branch
- b. Git -b
- c. Git new branch
- d. Git checkout branch

4. Assuming a remote repository at https://github.com/myawesomegitname/my_repo.git, how would you add the remote repository to your local git?

- a. Git remote origin add https://github.com/myawesomegitname/my_repo.git
- b. Git remote new origin https://github.com/myawesomegitname/my_repo.git
- c. Git remote add https://github.com/myawesomegitname/my_repo.git
- d. Git remote add origin https://github.com/myawesomegitname/my_repo.git

5. Which is the correct order to submit your changes from the working directory all the way to the remote repository?

- a. Git add, git commit, git push
- b. Git add, git push, git commit
- c. Git commit, git add, git push
- d. Git push, git add, git commit

6. Which of the following commands is used in switching between branches?

- a. Git branch
- b. Git checkout
- c. Git switch
- d. Git merge

7. Who prioritizes product backlog?

- a. Product owner
- b. Scrum team
- c. Scrum master
- d. All the above

8. When is Acceptance Testing performed in Agile development?

- a. On request of customer
- b. After system is ready

- c. At the end of each iteration
- d. Daily

9. In agile development, lengthy documentation is created.

- a. True
- b. False

10. What are the skills that are required by the Agile Tester?

- a. Domain knowledge
- b. Keen to learn and adopt new technology
- c. Effective communicator who maintains good relationship with development team
- d. All the above

11. How is plan driven development different from agile development ?

- a. Outputs are decided through a process of negotiation during the software development process
- b. Specification, design, implementation and testing are interleaved
- c. Iteration occurs within activities
- d. All of the mentioned

12. Who is Reported IN JIRA?

- a. Person who has to solve the issue
- b. Person who can generate reports
- c. Person who raise the issue
- d. Person who can view the issue

13. What command do you run to view the commit history of your repository?

- a. Git history
- b. Git log
- c. Git commit -h
- d. Git past

14. How do you check the state of your local git repository since your last commit?

- a. Git check
- b. Git status
- c. Git commit
- d. Git diff

15. What's a shortcut to staging all the changes you have?

- a. Git commit add.
- b. Git commit.
- c. Git add.
- d. Git stage -a

16. How do you supply a commit message to a commit?

- a. Git message "I'm coding!"
- b. Git add "I'm coding!"
- c. Git commit "I'm coding!"

- d. Git commit -m "I'm coding!"

17. To get the latest changes from your remote repository, the git command is.

- a. Git refresh
- b. Git pull down
- c. Git pull origin master
- d. Git reset

18. Arrange the following scrum practices according to the order in which they are carried out.

- a. Sprint planning
- b. Daily scrum meet
- c. Sprint retrospective meet
- d. Sprint review meet
- e. Sprint

- a. 1, 5, 2, 3, 4
- b. 1, 5, 2, 4, 3
- c. 1, 2, 5, 4, 3
- d. 1, 3, 2, 4, 5

19. Agile is a _____ .

- a. Sequential
- b. Iterative
- c. Incremental
- d. Both b & c

20. Agile Development Testing is treated as a separate phase.

- a. True
- b. False

21. What are the advantages of Agile Testing?

- a. Saves time
- b. Requires less planning and creates less documentation
- c. Regular feedback from end users
- d. Solves issues in advance by daily meeting
- e. All the above

22. Who is responsible for sprint meeting?

- a. Product owner
- b. Scrum team
- c. Scrum master
- d. All of the above.

23. Can you assign an issue to yourself?

- a. True
- b. False

24. Which of the following is not an issue type?

- a. Epic
- b. Minor
- c. Sub-task
- d. Story

25. Docker containers are based on open standard_____.

- A. Allowing containers to run on all major Linux distributions only
- B. Allowing containers to run on all Microsoft operating systems only
- C. Allowing containers to run on all major Linux distributions and Microsoft operating systems

26. Containers running on a single machine all share the same operating system kernel, so they start instantly and make more efficient use of RAM.

- A. True
- B. False

27. Virtual Machines, Each virtual machine includes the application, the necessary binaries and libraries, and an entire guest operating system - All of which may be tens of GBs in size.

- A. True
- B. False

28. Containers; Containers include the application and all of its dependencies, but share the kernel with other containers. They run as an isolated process in userspace on the host operating system. They're also not tied to any specific infrastructure – Docker containers run on any computer, on any infrastructure, and in any cloud.

- A. True
- B. False

29. _____is a cloud-hosted service from Docker that provides registry capabilities for public and private content.

- A. Docker Swarm
- B. Docker Hub
- C. Docker Cloud
- D. Docker Compose

30. _____is a tool for defining and running multi-container Docker applications.

- A. Docker Swarm
- B. Docker Hub
- C. Docker Cloud
- D. Docker Compose

31. _____is native clustering for Docker. It turns a pool of Docker hosts into a single, virtual Docker host.

- A. Docker Swarm

- B. Docker Hub
- C. Docker Cloud
- D. Docker Compose

32. _____ is the enterprise-grade cluster management solution from Docker. It manages your whole cluster from a single place.

- A. Docker Swarm
- B. Docker Hub
- C. Docker Universal Control Plane
- D. Docker Compose

33. _____ is a hosted service that provides a Registry with build and testing facilities for Dockerized application images, tools to help you set up and manage your host infrastructure, and deployment features to help you automate deploying your images to your infrastructure.

- A. Docker Cloud
- B. Docker Hub
- C. Docker Universal Control Plane
- D. Docker Compose

34. D Following Docker command:

`docker build -t my_user/repo_name:1.0` is used to:

- A. Activate default VM machine
- B. Access a running container
- C. Build an image
- D. Commit changes done in a Docker image

35. _____ is an open-source project built to simplify and streamline using Docker on a Mac or Windows. This tool automates the Docker installation and setup process and provides an intuitive graphical user interface (GUI) for running Docker containers.

- A. Docker Cloud
- B. Docker Kitematic
- C. Docker Universal Control Plane
- D. Docker Compose

36. Following Docker command:

`docker push user_name/repository_name`

is used to:

- A. Activate default VM machine
- B. Push changes done in a docker image into Docker Hub.
- C. Build an image
- D. Commit changes done in a Docker image.

37. Following Docker command:

`docker exec -it container_id bash`

is used to:

- A. Activate default VM machine
- B. Access a running container
- C. Build an image
- D. Commit changes done in a Docker image

38. You can install Docker Engine directly to servers you have on cloud providers. The providers supported are:

- A. Amazon Web Services (AWS)
- B. Microsoft Azure
- C. Digital Ocean

39. On Docker Hub, you get ten private repositories for free with your Docker Hub user account. If you need more accounts, you can upgrade your Docker Hub plan.

- A. True
- B. False

40. Which of the following is not a type of cloud?

- A : Private
- B : Public
- C : Protected
- D : Hybrid

41. Which of the following architectural standards is working with cloud computing industry?

- A : Service-oriented architecture
- B : Standardized Web services
- C : Web-application frameworks
- D : Web-based architecture

42. Point out the correct statement:

- A : Google's cloud includes perhaps some 10 datacenters worldwide
- B : Flipkart.com's infrastructure was built to support elastic demand so the system could accommodate peak traffic
- C : Datacenters have been sited to optimize the overall system latency
- D : Datacenters don't optimize the system latency

43. When you add operating system and applications to the service, the model called as _____.

- A : PaaS
- B : CaaS
- C : SaaS
- D : IaaS

44. Which organization supports the development of standards for the cloud computing?

- A : IEEE
- B : OMG
- C : OCC
- D : Stateless

45. Which of the following Cloud Security Characteristic states that data not having been altered by an unauthorized party ?

- A : Integrity
- B : Confidentiality
- C : Authenticity
- D : Availability

46. Google _____ is a collection of applications and utilities under development and testing.

- A : Code
- B : Labs
- C : Hash
- D : Platform

47. PaaS stands for?

- A : Product as a service
- B : Platform application and services
- C : Platform as a system
- D : Platform as a service

48. Azure Storage plays the same role in Azure that _____ plays in Amazon Web Services.

- A : S3
- B : EC2
- C : EC3
- D : S2

49. What is the full form of CD?

- A. Continuous Delivery
- B.Constant Delivery
- C.Construct Delivery
- D.None of these

50. What is the full form of CI?

- A. Constant Integration
- B.Continuous Integration
- C.Comprises Integration
- D.None of these

51. Jenkins invented by

- A. Kohsuke Kawaguchi
- B.Edward Sorin
- C.Richard C. Notebaert

D.Thomas Aquinas

52. Identify the CI tools?

- A. Jenkins
- B.Travis CI
- C.TeamCity
- D.All of the above

53. What do you basic requirement to start using Jenkins?

- A. a viable source code repository
- B.a build script that's registered on that repository
- C.Both 1 and 2
- D.None of these

54. What do you mean by Jenkins?

- A. Jenkins is an open source Continuous and Integration.
- B.Jenkins is an open source Continuous Integration and Continuous Delivery Tool.
- C.Jenkins is an open source Continuous and only Continuous Delivery Tool.
- D.None of these

55. What are the advantages of Jenkins?

- A. At integration stage, build failures are cached
- B. For each code commit changes an automatic build report notification generates
- C. To notify developers about build report success or failure, it is integrated with LDAP mail server
- D. All of the above