Started on	Wednesday, 6 August 2025, 4:59 PM
State	Finished
Completed on	Wednesday, 6 August 2025, 5:07 PM
Time taken	7 mins 44 secs
Marks	17.00/20.00
Grade	**85.00** out of 100.00

Question 1

Complete

Mark 1.00 out of 1.00

How do you define a stage that only runs on a specific branch in Jenkins declarative pipeline?

- a.   onlyIf { branch == 'main' }
- b.   when { equals branch: 'main' }
- ◉ c.   when { branch 'main' }
- d.   stage('X') { if(branch == 'main') { ... } }

Question 2

Complete

Mark 1.00 out of 1.00

In a Jenkins pipeline, what is the behavior of `parallel` block?

- a.   Creates new threads in master node
- b.   Runs all stages sequentially with logs
- ◉ c.   Runs multiple branches concurrently
- d.   Duplicates a job across agents

Question 3

Complete

Mark 1.00 out of 1.00

In Groovy, what will `"5" * 2` evaluate to?

- ◉ a.   "55"
- b.   10
- c.   "55"
- d.   "5 5"

Question 4

Complete

Mark 1.00 out of 1.00

In Jenkins, how is a shared library typically loaded in a pipeline?

- ● a. With `@Library` annotation
- ○ b. Using `import` keyword
- ○ c. Through a plugin
- ○ d. Using `loadLibrary` command

Question 5

Complete

Mark 1.00 out of 1.00

In Jenkins, which option keeps only a fixed number of recent builds?

- ○ a. Post-build Actions
- ● b. Discard Old Builds
- ○ c. Build Triggers
- ○ d. Build timeout plugin

Question 6

Complete

Mark 1.00 out of 1.00

In Jenkinsfile, which syntax is valid for defining a parameterized build?

- ○ a. env.ENV = 'dev'
- ○ b. buildParam("ENV")
- ● c. parameters { string(name: 'ENV', defaultValue: 'dev') }
- ○ d. input "Choose value"

Question 7

Complete

Mark 1.00 out of 1.00

What does `docker exec` do?

- ○ a. Exits the Docker daemon
- ○ b. Runs a new container with a command
- ● c. Executes a command inside a running container
- ○ d. Executes a command in a stopped container

Question 8

Complete

Mark 1.00 out of 1.00

What does `FROM scratch` mean in a Dockerfile?

- ○ a.   Use base image from Alpine
- ● b.   Use an empty base image
- ○ c.   Use the latest Ubuntu version
- ○ d.   Rebuild all dependencies

Question 9

Complete

Mark 1.00 out of 1.00

What does the `agent any` directive do in a Jenkins Declarative Pipeline?

- ● a.   Runs on any available executor
- ○ b.   Assigns the pipeline to the master node
- ○ c.   Runs only in Docker agent
- ○ d.   Executes on all nodes simultaneously

Question 10

Complete

Mark 1.00 out of 1.00

What happens if you run a Docker container with the --rm flag?

- ● a.   The container is removed after it exits
- ○ b.   The container image is deleted
- ○ c.   The container is paused after execution
- ○ d.   The container restarts automatically on failure

Question 11

Complete

Mark 1.00 out of 1.00

What happens when you use the `docker run -d` command?

- ○ a.   Deletes existing containers before starting new
- ● b.   Runs container in background and returns container ID
- ○ c.   Starts Docker daemon
- ○ d.   Runs the container in interactive mode

Question 12

Complete

Mark 0.00 out of 1.00

What is the default network driver in Docker?

○ a.   none

◉ b.   host

○ c.   bridge

○ d.   overlay

Question 13

Complete

Mark 1.00 out of 1.00

What is the purpose of `post` section in a Jenkins declarative pipeline?

◉ a.   Contains steps that always run, even after failure

○ b.   Defines parameters for builds

○ c.   Defines environment variables

○ d.   Executes steps in parallel

Question 14

Complete

Mark 1.00 out of 1.00

Which command is used to create a new Docker image from a container's changes?

○ a.   docker build

○ b.   docker save

◉ c.   docker commit

○ d.   docker run

Question 15

Complete

Mark 0.00 out of 1.00

Which command saves an image to a .tar file for backup?

○ a.   docker save image > file.tar

◉ b.   docker export image > file.tar

○ c.   docker image save image file.tar

○ d.   docker backup image > file.tar

Question 16

Complete

Mark 1.00 out of 1.00

Which file does Docker use to ignore files/folders during build?

○ a.　.gitignore

○ b.　.dockerconfig

◉ c.　.dockerignore

○ d.　dockerfile.ignore

Question 17

Complete

Mark 0.00 out of 1.00

Which Jenkins plugin is required for using Docker agents in pipelines?

○ a.　Docker Pipeline Plugin

○ b.　Docker Commons Plugin

○ c.　Docker Build and Push Plugin

◉ d.　Docker Integration Plugin

Question 18

Complete

Mark 1.00 out of 1.00

Which of the following best describes a Groovy sandbox in Jenkins?

○ a.　A debugger for Jenkins jobs

○ b.　A tool to encrypt credentials

○ c.　A testing mode for pipeline output

◉ d.　A restricted environment to safely run untrusted scripts

Question 19

Complete

Mark 1.00 out of 1.00

Which of the following layers is shared between Docker containers?

○ a.　Mount namespace

○ b.　Writeable layer

◉ c.　Read-only image layers

○ d.　Container ID

Question 20

Complete

Mark 1.00 out of 1.00

Which of these Groovy data types is mutable and ordered?

- ○ a. Map
- ○ b. String
- ○ c. Set
- ◉ d. List

Question 20

Complete

Mark 1.00 out of 1.00