

<b>Started on</b>	Wednesday, 6 August 2025, 4:59 PM
<b>State</b>	Finished
<b>Completed on</b>	Wednesday, 6 August 2025, 5:07 PM
<b>Time taken</b>	7 mins 28 secs
<b>Marks</b>	16.00/20.00
<b>Grade</b>	<b>80.00</b> out of 100.00

### Question 1

Complete

Mark 0.00 out of 1.00

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

- ☒ a. `stage('X') { if(branch == 'main') { ... } }`
- ☐ b. `when { branch 'main' }`
- ☐ c. `when { equals branch: 'main' }`
- ☐ d. `onlyIf { 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. Duplicates a job across agents
- ☒ c. Runs multiple branches concurrently
- ☐ d. Runs all stages sequentially with logs

### Question 3

Complete

Mark 0.00 out of 1.00

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

- ☒ a. `"55"`
- ☐ b. `"55"`
- ☐ c. `"5 5"`
- ☐ d. `10`

**Question 4**

Complete

Mark 1.00 out of 1.00

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

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

**Question 5**

Complete

Mark 1.00 out of 1.00

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

- ☒ a. Discard Old Builds
- ☐ b. Post-build Actions
- ☐ 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. `buildParam("ENV")`
- ☒ b. `parameters { string(name: 'ENV', defaultValue: 'dev') }`
- ☐ c. `env.ENV = 'dev'`
- ☐ d. `input "Choose value"`

**Question 7**

Complete

Mark 1.00 out of 1.00

What does `docker exec` do?

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

**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. Rebuild all dependencies
- ☒ c. Use an empty base image
- ☐ d. Use the latest Ubuntu version

**Question 9**

Complete

Mark 1.00 out of 1.00

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

- ☐ a. Assigns the pipeline to the master node
- ☒ b. Runs on any available executor
- ☐ 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 image is deleted
- ☒ b. The container is removed after it exits
- ☐ 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. Starts Docker daemon
- ☒ b. Runs container in background and returns container ID
- ☐ c. Deletes existing containers before starting new
- ☐ 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. bridge
- ☒ b. host
- ☐ c. none
- ☐ 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. Executes steps in parallel
- ☐ c. Defines environment variables
- ☐ d. Defines parameters for builds

**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 commit
- ☐ b. docker run
- ☐ c. docker save
- ☐ d. docker build

**Question 15**

Complete

Mark 0.00 out of 1.00

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

- ☐ a. docker backup image > file.tar
- ☐ b. docker save image > file.tar
- ☒ c. docker export image > file.tar
- ☐ d. docker image save 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. .dockerignore
- ☐ b. .gitignore
- ☐ c. dockerfile.ignore
- ☐ d. .dockerconfig

**Question 17**

Complete

Mark 1.00 out of 1.00

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

- ☒ a. Docker Pipeline Plugin
- ☐ b. Docker Integration Plugin
- ☐ c. Docker Build and Push Plugin
- ☐ d. Docker Commons 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 testing mode for pipeline output
- ☐ c. A tool to encrypt credentials
- ☒ 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. Read-only image layers
- ☐ b. Mount namespace
- ☐ c. Container ID
- ☐ d. Writeable layer

**Question 20**

Complete

Mark 1.00 out of 1.00

Which of these Groovy data types is mutable and ordered?

- ☐ a. Set
- ☐ b. Map
- ☐ c. String
- ☒ d. List