Test Your Knowledge – Pipeline as a Code

- 1. Which block is used to define the individual steps within a stage in a Declarative Pipeline?
 - steps
 - o stage
 - post
 - agent
- 2. How can you handle sensitive information, such as passwords or API keys, in a Jenkins pipeline?
 - Store them directly in the Jenkinsfile
 - Use Jenkins credentials and the withCredentials step
 - Print them in the console output for easy access
 - Commit them to the source code repository
- 3. What is the purpose of defining pipelines as code in Jenkins?
 - o To manually configure pipelines through the Jenkins UI
 - o To version control pipeline definitions and enable collaboration
 - To eliminate the need for testing and deploying code
 - To replace the use of Jenkinsfiles
- 4. What is the purpose of the post section in a Declarative Pipeline?
 - To define the stages of the pipeline
 - o To specify the agent on which the pipeline should run
 - To run additional steps based on the pipeline's outcome
 - To declare environment variables for the pipeline
- 5. Which of the following is the recommended file name for storing the pipeline definition?
 - pipeline.groovy
 - Jenkinsfile
 - Dockerfile
 - o build.xml
- 6. What is the purpose of the agent directive in a Declarative Pipeline?
 - o To define the steps to be executed in the pipeline
 - To specify the triggers for the pipeline
 - o To declare the environment variables for the pipeline

- To specify where the pipeline should be executed Which of the following is a best practice for
- 7. What is the benefit of using the stash and unstash steps in a Jenkins pipeline?
 - To encrypt sensitive data in the pipeline
 - To deploy the application to production
 - To cache and reuse files between stages or pipelines
 - To send email notifications about the pipeline status
- 8. What is the main difference between Declarative and Scripted Pipeline syntax in Jenkins?
 - Declarative pipelines are used for continuous integration, while Scripted pipelines are used for continuous deployment
 - Declarative pipelines are written in YAML, while Scripted pipelines are written in Groovy
 - Declarative pipelines provide a more structured and opinionated syntax, while Scripted pipelines offer more flexibility and control
 - Declarative pipelines are used for simple projects, while Scripted pipelines are used for complex projects
- 9. Which of the following is NOT a valid section in a Declarative Pipeline?
 - stages
 - steps
 - o post
 - o pre
- 10. Which of the following is a best practice for writing efficient and maintainable pipelines?
 - Use long and descriptive names for stages and steps
 - Keep the Jenkinsfile concise and focused on the essential pipeline logic
 - Hardcode all configuration values directly in the Jenkinsfile
 - Avoid using comments and documentation in the pipeline code