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CLOUD DEVOPS (EPAM) 2023-2024 EVEN SEMESTER QUIZ4

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Time taken	2 mins 58 secs
Grade	10.00 out of 10.00 (100%)

Question 1 Correct Mark 1.00 out of 1.00

How does Jenkins help in improving collaboration between development and operations teams?

- ☐ a. BY ALLOWING TEAMS TO WORK IN COMPLETE ISOLATION FROM EACH OTHER
- ☒ b. BY AUTOMATING CODE INTEGRATION AND DEPLOYMENT, REDUCING CONFLICTS AND DELAYS ✓
- ☐ c. BY PROVIDING A PLATFORM FOR LIVE CHAT BETWEEN TEAMS
- ☐ d. BY INCREASING THE NUMBER OF MANUAL APPROVALS REQUIRED FOR CHANGES

The correct answer is: BY AUTOMATING CODE INTEGRATION AND DEPLOYMENT, REDUCING CONFLICTS AND DELAYS

Question 2 Correct Mark 1.00 out of 1.00

How does Jenkins support Continuous Deployment (CD)?

- ☐ a. BY AUTOMATICALLY DEPLOYING EVERY CODE CHANGE TO PRODUCTION
- ☐ b. BY REQUIRING MANUAL INTERVENTION FOR EVERY DEPLOYMENT
- ☒ c. BY PROVIDING TOOLS TO AUTOMATE AND SCHEDULE DEPLOYMENTS AFTER SUCCESSFUL TESTING ✓
- ☐ d. BY AUTOMATICALLY DEPLOYING ONLY ONCE PER DAY

The correct answer is: BY PROVIDING TOOLS TO AUTOMATE AND SCHEDULE DEPLOYMENTS AFTER SUCCESSFUL TESTING

Question 3 Correct Mark 1.00 out of 1.00

What does a Jenkins "pipeline" refer to?

- ☐ a. A PHYSICAL PIPELINE FOR TRANSPORTING DATA
- ☐ b. A NETWORKING TOOL FOR CONNECTING DIFFERENT SERVERS
- ☒ c. A SEQUENCE OF STEPS THAT DEFINES THE BUILD, TEST, AND DEPLOYMENT PROCESS ✓
- ☐ d. A VISUALIZATION OF SERVER LOGS

The correct answer is: A SEQUENCE OF STEPS THAT DEFINES THE BUILD, TEST, AND DEPLOYMENT PROCESS

Question 4 Correct Mark 1.00 out of 1.00

What does the acronym "CD" stand for in the context of DevOps?

- ☐ a. CONTINUOUS DEVELOPMENT
- ☒ b. CONTINUOUS DEPLOYMENT ✓
- ☐ c. CONFIGURATION DEPLOYMENT
- ☐ d. CONTROLLED DEPLOYMENT

The correct answer is: CONTINUOUS DEPLOYMENT

Question 5 Correct Mark 1.00 out of 1.00

What is Jenkins primarily used for in the context of DevOps?

- ☐ a. TO MANAGE DATABASES
- ☐ b. TO MONITOR SERVERS AND INFRASTRUCTURE
- ☒ c. TO AUTOMATE BUILD, TEST, AND DEPLOYMENT PROCESSES ✓
- ☐ d. TO CREATE GRAPHICAL USER INTERFACES

The correct answer is: TO AUTOMATE BUILD, TEST, AND DEPLOYMENT PROCESSES

Question 6 Correct Mark 1.00 out of 1.00

What is the main benefit of using Jenkins for Continuous Integration?

- ☐ a. ELIMINATING THE NEED FOR MANUAL CODE INTEGRATION
- ☐ b. INCREASING SOFTWARE DEVELOPMENT SPEED AT THE COST OF QUALITY
- ☐ c. IMPROVING COLLABORATION BETWEEN DEVELOPMENT AND OPERATIONS TEAMS
- ☒ d. AUTOMATING THE BUILD, TEST, AND DEPLOYMENT PROCESS ✓

The correct answer is: AUTOMATING THE BUILD, TEST, AND DEPLOYMENT PROCESS

Question 7 Correct Mark 1.00 out of 1.00

What is the purpose of a Jenkinsfile in a Jenkins pipeline?

- ☐ a. TO CREATE VISUAL REPRESENTATIONS OF PIPELINE EXECUTION
- ☐ b. TO STORE THE JENKINS SERVER CONFIGURATIONS
- ☒ c. TO DEFINE THE STEPS OF THE PIPELINE AS CODE ✓
- ☐ d. TO STORE DOCUMENTATION ABOUT THE PROJECT

The correct answer is: TO DEFINE THE STEPS OF THE PIPELINE AS CODE

Question 8 Correct Mark 1.00 out of 1.00

Which of the following best describes Continuous Integration (CI) in a DevOps pipeline?

- ☐ a. IT REFERS TO THE DEPLOYMENT OF CODE WITHOUT PRIOR TESTING
- ☐ b. IT IS ANOTHER TERM FOR CONTINUOUS DEPLOYMENT
- ☐ c. IT IS A MANUAL PROCESS OF INTEGRATING CODE CHANGES
- ☒ d. IT INVOLVES AUTOMATICALLY INTEGRATING AND TESTING CODE CHANGES AS THEY ARE MADE ✓

The correct answer is: IT INVOLVES AUTOMATICALLY INTEGRATING AND TESTING CODE CHANGES AS THEY ARE MADE

Question 9 Correct Mark 1.00 out of 1.00

Which programming languages are commonly used for writing Jenkins pipelines?

- ☐ a. JAVASCRIPT AND HTML
- ☐ b. JAVA AND PYTHON
- ☒ c. GROOVY AND YAML ✓
- ☐ d. RUBY AND C++

The correct answer is: GROOVY AND YAML

Question 10 Correct Mark 1.00 out of 1.00

Which type of automation does Jenkins primarily facilitate in a CI/CD pipeline?

- ☐ a. AUTOMATION OF MANUAL TESTING PROCESSES
- ☐ b. AUTOMATION OF PROJECT DOCUMENTATION
- ☐ c. AUTOMATION OF PROJECT PLANNING
- ☒ d. AUTOMATION OF CODE INTEGRATION, BUILDING, TESTING, AND DEPLOYMENT ✓

The correct answer is: AUTOMATION OF CODE INTEGRATION, BUILDING, TESTING, AND DEPLOYMENT

◀ QUIZ3

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