**TEST-2**

**MCQ**

* 1.What is the primary goal of DevOps?
  + A. Faster development
  + B. Efficient collaboration between development and operations
  + C. Lowering infrastructure costs
  + D. Increased code complexity
* 2.Which of the following is a core principle of DevOps?
  + A. Siloed teams
  + B. Manual deployment processes
  + C. Continuous collaboration and communication
  + D. Limited automation
* 3.What is Continuous Integration (CI) in the context of DevOps?
  + A. A process where integration is done manually
  + B. A process of integrating code changes automatically and frequently
  + C. A process of integrating code changes only during major releases
  + D. A process of integrating code changes without testing
* 4.What does the term "Infrastructure as Code" (IaC) mean in DevOps?
  + A. Writing code in assembly language
  + B. Managing infrastructure manually
  + C. Managing infrastructure through code and automation
  + D. Ignoring infrastructure in the development process
* 5.Which phase of the DevOps lifecycle focuses on monitoring, feedback, and continuous improvement?
  + A. Planning
  + B. Coding
  + C. Continuous Integration
  + D. Continuous Monitoring
* 6.What is the purpose of Continuous Deployment (CD) in DevOps?
  + A. Deploying code changes automatically to production
  + B. Deploying code changes manually to production
  + C. Ignoring code changes
  + D. Reversing code changes in production
* 7.Which tool is commonly used for container orchestration in DevOps?
  + A. Jenkins
  + B. Docker
  + C. Ansible
  + D. Terraform
* 8.In DevOps, what does the term "Shift-Left" refer to?
  + A. Delaying deployment
  + B. Early integration and testing in the development process
  + C. Ignoring security concerns
  + D. Moving operations to the right in the pipeline
* 9.What is the role of Configuration Management in DevOps?
  + A. Managing infrastructure manually
  + B. Automating the process of configuring and maintaining infrastructure
  + C. Ignoring infrastructure changes
  + D. Handling only code changes
* 10.What is the significance of "Blue-Gr
* What is Git?
  + A. A version control system
  + B. A programming language
  + C. An operating system
  + D. A web browser
* 11.What is the primary purpose of Git?
  + A. Managing databases
  + B. Managing source code and its versions
  + C. Running applications in the cloud
  + D. Graphic design
* 12.Which command is used to initialize a new Git repository?
  + A. git commit
  + B. git init
  + C. git clone
  + D. git add

**QUESTIONS:**

1,explain Devops life cycle

Devops is a continious software development processes.

Devops have 3 phases deveploment,deployment,operation phases

where devops have 8 stages

Plan ,code ,build ,test,release ,deploy,operate,moniter

2,different between agile and devops

Agile is methodlogy that follows by devops people through software devoplment life

Cycle that is how to develop software and deliver software

Devops is processes follow by any organisation to faster application delivery

By using automated tools

3,create a other file add that file to staging area to repository

For configuration

Git config global --user.name “aaaa”

Git config global --user.email “ [aaaa@gmail.com](mailto:aaaa@gmail.com)”

To get into resporatory

Git init

Git status

To add file

Git add <file name>

To commit the file

Git commit –m “message”

To clear git bash

Git Clear

4,explain difference between cvcs,Dvcs

Cvcs stands for centrailsed version control systems

It has only one repositary ,of server down devopler cant modified

Every developer have acesses to that reposatory can code can easily modefied

If server is down devepler cant modefied there code

Time waste happen

Not open sorce

Dvcs stands for didtributed version control sytem

It have multiple reposatory ,at local machine , server (git bash),

if server is down developer can modefied there code in local machine

no time waste

open source

5,why git is DVCS

git is distributed version control system because it is speed,low cost,compabality,every developer can take that code and develop the code

it has no worries it can support any older version or new version of files

every deveplor can acess the code fron git bash and can develop the code

no worries of loss in code