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SEAT No. :

P6993

[5865] - 401

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S.Y. M.C.A. (Management)
COMPUTER MANAGEMENT
421 : IT 41 - DevOps
(2020 Pattern) (Semester - IV)

Time : 2½ Hours]

[Max. Marks : 50

Instructions to the candidates:

- 1) *All questions are compulsory.*
- 2) *Figures to the right indicate full marks.*

Q1) Multiple Choice Questions.

[10]

- i) What are the key components of DevOps?
 - a) Continuous Integration
 - b) Continuous Testing
 - c) Continuous Delivery & Monitoring
 - d) All of the above
- ii) What are the Business advantages of DevOps?
 - a) Faster delivery of features
 - b) Less stable operating Environments
 - c) More time available to add value.
 - d) a & b correct
- iii) What is the full form of GIT?
 - a) Gastro Intestinal Track
 - b) Gastro International Track
 - c) Global Information Tracker
 - d) None of these

P.T.O.

- iv) Which of the following commands used to show all parameters in git?
- a) `$ git config -- List`
 - b) `$ git config - a`
 - c) `$ git config -- all`
 - d) `$ git config -- parameters-list`
- v) _____ command is to create git branch.
- a) `git checkout <branch Name>`
 - b) `git create-branch (branch Name)`
 - c) `git branch <branch Name>`
 - d) `git - b <branch Name>`
- vi) Which command is used to print file?
- a) `print`
 - b) `ptr`
 - c) `lpr`
 - d) none of the above
- vii) Write the command to display the current date in the form of dd/mm/yyyy.
- a) `date + %d/%m/%y`
 - b) `date + “%d/%m/%y”`
 - c) `date + “%d/%m/20%y”`
 - d) `date + %d/%m/20%y`
- viii) Command to check the created, modified, deleted files in gitbash before commit.
- a) `git show`
 - b) `git log`
 - c) `git status`
 - d) all of the above
- ix) _____ command is used to display the environment variables only.
- a) `set`
 - b) `env`
 - c) `sh`
 - d) `var`
- x) What's a shortcut to staging all the changes you have?
- a) `Git commit add`
 - b) `Git commit`
 - c) `Git add`
 - d) `Git stage - a`

- xi) Which of the following is true about chef server?
- a) The chef server is the central store of your infrastructure configuration data.
 - b) The chef server stores the data necessary to configure your nodes & provides search.
 - c) It's powerful tool that allows you to dynamically drive node configuration based on data.
 - d) All of the above
- xii) How many ways to setup a chef server?
- a) 1
 - b) 2
 - c) 3
 - d) 4
- xiii) A Docker registry is a place to store and distribute docker.
- a) Codes
 - b) Images
 - c) Files
 - d) All of the above
- xiv) Which command is used for running the images as a container?
- a) `$ docker PS`
 - b) `$ sudo docker run container name`
 - c) `$ sudo docker run -i -t alpine/bin/bash`
 - d) All of the above
- xv) _____ is a configuration management tool for dealing with machine setup on physical servers.
- a) Cook books
 - b) Chefs
 - c) Chef infra
 - d) Work station
- xvi) Which of the following command removes the target directory with all the build data before starting build process.
- a) `mvn clean`
 - b) `mvn build`
 - c) `mvn compile`
 - d) `mvn site`
- xvii) Which one of the following command should you run to see all running container in Docker?
- a) `$ docker PS`
 - b) `$ docker SP`
 - c) `$ docker all`
 - d) All of the above

xviii) What are the advantages of using Docker container?

- a) Offers an efficient and easy initial setup.
- b) Documentation provides every bit of information
- c) Allows you to describe your application life cycle in detail
- d) All of the above

xix) Which of the following is not software development life cycle model?

- a) Agile Model
- b) RAD Model
- c) Prototype Model
- d) Autonomous Model

xx) DevOps culture is about _____ between Dev and Ops.

- a) Collaboration
- b) Speed
- c) Stability
- d) Testability

Q2) a) Explain DevOps Life cycle? [5]

b) What is a distributed VCS? [5]

OR

a) What are the fundamental differences between DevOps & Agile? [5]

b) What is the difference between git pull and git fetch? [5]

Q3) a) Explain chef components. [5]

b) What does a Node represent in chef? [5]

OR

a) Explain the use of knife in chef. [5]

b) List types of handlers in chef and explain it. [5]

- Q4)** a) How does Maven works? [5]
- b) Explain Maven build life cycle. [5]

OR

- a) What are different types of Maven repositories? [5]
- b) What is Maven - release plugin and how does it work? [5]

Q5) How do you configure a GIT Repository to run code sanity checking tools right before making commits, and preventing them if test fails? [10]

OR

Write and explain, different phases of Maven build life cycle. [10]