Software Development Methodologies(SDM) Final Assessment

Total points 44/58 ?

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✕ _____ is needed to ensure   *
there are no code conflicts between the
developers

○ ◉ Git Hub

○ Mercurial

○ SVN

○ All of these

○ 1 and 3 only

Correct answer

◉ All of these

✓   _____ means "continuously combine   *
new code, compile and test until things work"

◉ Continuous Integration

◯ Continuous Deployment

◯ None

◯ Continuous Development

✗   *   1

◯ _____ is a way of keeping multiple forms of files stored in a reposit

◯ Container

◯ VCS

◯ Build

◉ SDLC

Correct answer

◉ VCS

✕   Software development workflow starts with *

◯   Requirements Analysis

◯   Evolution

◉   Planning

◯   Design

Correct answer

◉   Requirements Analysis

✕   Git satisfies propertes like *

☐   Distributed

☐   Branched

☑   Open source

☐   Linear

Correct answer

☑   Distributed

☑   Branched

☑   Open source

✓ The Default branch of Git *

○ Feature

◉ Master

○ Main

○ None

✓ ----------- is a pointer to latest commit in the working branch *

○ CommitID

◉ head

○ branch

○ remote

✗ _____ associates remote repository with names *

○ local

◉ remote

○ upstream

○ origin

Correct answer

◉ origin

✓ _____command copies existing repository from remote repository *   1

○ push

○ pull

◉ clone

○ copy

✓ _____ is the command used to convert a directory to a repository *   1

○ git clone <url>

◉ git init

○ git add *

○ git commit -m "commit msg"

✗ Write the command to configure the user name as "cdac" for Git *   1

git config --global user.name "cdac"

Correct answer

git config --global user.name "cdac"

✕   What is the command to move back to a previous commit, with commitID = 2345f

$ git checkout <2345f>

Correct answer

git checkout 2345f

✓   After you add a file in Git, it becomes *

○ committed

○ modified

◉ staged

○ untracked

✓   What command lets you create a connection between a local and remote repository?

◉ git remote add origin

○ git remote add new

○ git remote new origin

○ git remote origin

✓ Which Command is used to show limited number of commits? *   1

○ git fetch

◉ git log -n

○ git config

○ git status

✓ _____ removes untracked files from your working directory. *   1

○ git commit

○ git clean -f

◉ git clean

○ git reset

✓ What is Software Engineering? *   1

○ Designing a software

○ Testing a software

◉ Application of engineering principles to the design a software

○ None of the above

✓ Which of the following is not included in a good SRS? *

○ Functional Requirement

○ Non-Functional Requirement

○ Goals of Implementation

● Aglorithms for the implementation

✓ We generally use the _____ for Software Maintenance. *

○ Integration Testing

○ Unit Testing

○ System Testing

● Regression Testing

✓ Code is checked in which type of testing? *

○ Black box testing

○ Grey box testing

○ Red box testing

● White box testing

✓ The _____ model depicts the software development process in a linear sequential flow; due to this, it is also referred to as a linear-sequential life cycle model, which indicates that any development process steps can start only after the previous one has finished.

1

○ Spiral Model

○ Agile Model

◉ Waterfall Model

○ V- Model

✓ _____ is the model, where the developers create a model of the actual software.

1

○ Waterfall Model

○ Agile Model

○ Incremental

◉ Prototyping

✓ Define Agile scrum methodology. *

1

◉ project management that emphasizes incremental progress

○ project management that emphasizes decremental progress

○ project management that emphasizes neutral progress

○ project management that emphasizes continuous progress

✓ **What does SDLC stands for?** *

○ System Design Life Cycle

○ Software Design Life Cycle

◉ Software Development Life Cycle

○ System Development Life cycle

✓ **Who proposed the spiral model?** *

◉ Barry Boehm

○ Pressman

○ Royce

○ IBM

✓ **What are agile manifesto principles?** *

○ Customer satisfaction

○ Face-to-face communication within a development team

○ Changes in requirements are welcome

◉ All of the mentioned

✗   Agile Software Development is based on which of the following type? *

⦿ Iterative Development

◯ Incremental Development

◯ Both Incremental and Iterative Development

◯ Linear Development

Correct answer

⦿ Both Incremental and Iterative Development

✓   *

Which of the following UML diagrams has a static view?

⦿ usecase

◯ activity

◯ state chart

◯ collaboration

✓   Which diagram in UML shows a complete or partial view of the structure
of a modeled system at a specific time?

◯ Sequence Diagram

◯ Collaboration Diagram

◯ Class Diagram

⦿ Object Diagram

✓ Which of the following diagram is time oriented? *

○ Collaboration

◉ Sequence

○ Activity

○ None of the mentioned

✓ _____ is basically an issue and project tracking tool which allows us to track any project related work by following a proper workflow.

○ Jenkins

◉ Jira

○ Docker

○ Kubernetes

✓ Microservice could be considered as subset of _____ *

○ POA

◉ SOA

○ Cloud

○ Java

○ HTTP

✓ *A monolithic application is _____* *

◉ built as single unit

◯ built to handle functionality and data of many application

◯ both of the above

◯ none of the above

✓ *Agile development and deployment is difficult in case of _____* *

◉ Monolithic

◯ Microservice

◯ both of the above

◯ none of the above

✓ DevOps culture is about _____ between Dev and Ops *

◉ Collaboration

◯ Speed

◯ Stability

◯ Security

✕ In typical IT organization why is there a typical conflict between
development and operations teams?

1

○ Because operations team knows more about test and production environments

◉ Because they come from different backgrounds

○ Because they have conflicting business goals and priorities.

○ Because development team knows more about software products and services

Correct answer

◉ Because they have conflicting business goals and priorities.

✕ In a Devops organization which one of the following elements does not
directly contribute to your value stream?

1

○ Clients

○ Errors, incidents and fixes

◉ Devops team

○ Stakeholders of downstream work center

Correct answer

◉ Errors, incidents and fixes

✓ What is a Dockerfile? *

○ A Docker image that gets built by running a Docker command

◉ A text file that contains all the commands needed to build a given image

○ A running instance of a Docker image

○ A website where you can download Docker images

✓ Which command will map port 80 in the container to port 5001 on the
Docker host?

◉ docker run -p 5001:80

○ docker run -p 80:5001

○ docker run expose 80:5001

○ docker run expose 5001:80

✗ Which of the following correctly describes a container? *

◉ A text file describing the dependencies of an application.

○ An online registry of images.

○ An instance of an application created from a image.

○ A package consisting of an application and all its dependencies.

Correct answer

◉ An instance of an application created from a image.

✓ What is the basic operational unit of Kubernetes? *

○ Task

⦿ Pod

○ Nodes

○ Container

✓ What is the function of a Kubernetes node? *

○ To communicate with hosts on a network

⦿ To run pods according to master components

○ To channel incoming data from multiple input ports to a specific port

○ none of the above

✓ Which of the following is not part of the Test document? *

○ Test Case

○ Requirements Traceability Matrix [RTM]

○ Test strategy

⦿ Project Initiation Note [PIN]

✓   Which of the following testing is also known as white-box testing? *   1

◉   Structural testing

○   Error guessing technique

○   Design based testing

○   None of the above

✗   Jenkins is written in *   1

○   C++

○   .Net

○   Java

◉   None

Correct answer

◉   Java

✓   What are the two components Jenkins is mainly integrated with? *   1

○   Version Control system like GIT, SVN

○   Build tools like Apache Maven

◉   Both A and B

○   None

✓ What is Cloud Computing? *

○ Cloud Computing means providing services like storage, servers, database, networking, etc ●

○ Cloud Computing means storing data in a database

○ Cloud Computing is a tool used to create an application

○ None of the mentioned

✓ Point out the wrong statement. *

○ Azure enables .NET Framework applications to run over the Internet

○ Cloud Computing has two distinct sets of models

● Amazon has built a worldwide network of datacenters to service its search engine

○ None of the mentioned

✗ Which of the following is the wrong statement about cloud computing? *

○ Private cloud doesn't employ the same level of virtualization

● Data center operates under average loads

○ Private cloud doesn't pooling of resources that a cloud computing provider can achieve

○ Abstraction enables the key benefit of cloud computing: shared, ubiquitous acce

Correct answer

● Private cloud doesn't employ the same level of virtualization

✓ Which of the following refers to the client part of cloud computing
system?   1

○ back End

◉ Front End

○ Infrastructure

○ Management

✓ How many types of services Cloud computing offers? *   1

○ 2

◉ 3

○ 4

○ 5

✓ What are the major activities of the spiral model of software engineering?   1

◉ Planning, Risk Analysis, Engineering, Customer Evaluation

○ Defining, Prototyping, Testing, Delivery

○ Requirements

○ Quick Design, Build Prototype, Evaluate Prototype, Refine Prototype

✓ How does a software project manager need to act to minimize the risk of   1/1
software failure?

○ Double the project team size

○ Request a large budget

○ Form a small software team

◉ Track progress

✓ Black box testing is also called *   1/1

◉ Specification-based testing

○ Structural testing

○ Verification

○ Unit testing

✓ Software configuration activities would not include *   1/1

○ Identify change

○ Control change

◉ Ensure improper implementation of change

○ Report change to interested parties

✕   **What are the PRIMARY stakeholders for DevOps? ***

○ Design Engineers

◉ Quality Assurance

○ Testers

○ All of the above

Correct answer

◉ All of the above

✓   **What is the most common way in Selenium to find an element on a page?**   1

◉ Id

○ Xpath

○ CSS Selector

○ Name

✓   **Which of the following language is not supported by Selenium ***   1

○ PHP

○ C#

◉ ASP

○ Java

Google Forms