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Which of the following approach towards testing includes trial techniques and error guessing method because tester does not need knowledge of internal coding of the software?

- 1 ☐ White Box Testing
- 2 ☐ Grey Box Testing
- 3 ☒ Black Box Testing ✓
- 4 ☐ Red Box Testing

Solution -

Black Box Testing

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The elements of the software architecture of a computing system include

- 1. software components
- 2. class diagrams
- 3. connectors expressing relationships between software components
- 4. entity relationship diagrams

- 1 ☐ 1 & 2
- 2 ☐ 1 & 3
- 3 ☒ 1, 3 & 4 ✓
- 4 ☐ 1, 2, 3 & 4

Solution -

1, 3 & 4

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Cloud Service consists are:

- 1 ☐ Platform, Hardware, Infrastructure
- 2 ☒ Platform, Software, Infrastructure ✓
- 3 ☐ Software, Infrastructure, Hardware
- 4 ☐ Software, Hardware, Infrastructure

Solution -

Platform, Software, Infrastructure

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requirement analysis _____

- 1 ☐ delivers a system in a series of versions
- 2 ☐ organizes abstraction
- 3 ☒ builds a bridge between user and developer ✓
- 4 ☐ uses experimental software to better understand user requirements

Solution -

builds a bridge between user and developer

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Which is not a type of maintenance?

- 1 ☐ Adaptive
- 2 ☐ Corrective
- 3 ☐ Perfective

4 ☐ Obsolescence ✓

Solution -

Obsolescence

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When to Use The V Model?

- 1 ☐ If the requirement is well defined and not ambiguous
- 2 ☐ If acceptance criteria are well defined.
- 3 ☐ If technology and tools used are not dynamic.
- 4 ☐ All of the above ✓

Solution -

All of the above

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Load testing is carried out to check whether the system can handle the pressure or load of many users is an example of _____

- 1 ☐ Functional
- 2 ☐ Non-functional testing ✓
- 3 ☐ Unit Testing
- 4 ☐ All of the above

Solution -

Non-functional testing

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COCOMO is an effort estimation model in terms of _____

- 1 ☐ Cost
- 2 ☒ Person- Months ✓
- 3 ☐ Both
- 4 ☐ None of the above

Solution -

Person- Months

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Final Function point count calculated for project will result in the smallest LOC if implemented in

- 1 ☒ Assembly ✓
- 2 ☐ C
- 3 ☐ C++
- 4 ☐ Visual basic

Solution -

Assembly

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Arrange the following activities for making a software product by utilizing 4GT.

- I. Design strategy
- II. Transformation into product

III. Implementation

IV. Requirement gathering

- 1 ☐ 4,1,3,2
- 2 ☐ 4,3,2,1
- 3 ☐ 1,2,3,4
- 4 ☒ 1,4,2,3 ✓

Solution -

1,4,2,3

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What is the major drawback of using RAD Model?

- 1 ☒ Highly specialized & skilled developers/designers are required ✓
- 2 ☐ Increases reusability of components
- 3 ☐ Encourages customer/client feedback
- 4 ☐ Increases reusability of components, Highly specialized & skilled developers/designers are required

Solution -

Highly specialized & skilled developers/designers are required

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Arrange the following activities in Risk Assessment in the correct sequence

- a. Prioritization
- b. Identification
- c. Analysis

- 1 ☐ b, a, c
- 2 ☐ b, c, a ✓
- 3 ☐ a, b, c
- 4 ☐ c, a, b

Solution -

b, c, a

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Chief Programmer Teams are suitable for projects

- 1 ☐ with research orientation
- 2 ☐ with high modularity
- 3 ☐ with high creativity ✓
- 4 ☐ None of the above

Solution -

with high creativity

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Regardless of application area, project size, or complexity, software development work may be divided into three generic phases: the_____ phase, which focuses on what, the_____ phase, which focuses on how, and the_____ phase, which focuses on change.

- i. support
- ii. development
- iii. definition

- 1 ☐ iii, ii, i ✓

- 2 ☐ iii, I, ii
- 3 ☐ I, ii, iii
- 4 ☐ ii, I, iii

Solution -

iii, ii, i

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Ability to deal with exceptional conditions e.g. invalid input, improper handling, power failure, disk crash etc.

- 1 ☐ Efficiency
- 2 ☐ Robustness ✓
- 3 ☐ Reliability
- 4 ☐ Correctness

Solution -

Robustness

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What manifests in the patterns of choices made among alternatives ways of expressing an algorithm is

- 1 ☐ a data flow diagram
- 2 ☐ coding style ✓
- 3 ☐ a data dictionary
- 4 ☐ None of the above

Solution -

coding style

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What is true about distributed tracing used in microservices?

- 1 ☐ It ensure that failed microservices are resurrected properly
- 2 ☐ It transfer log management between a given host on demand
- 3 ☒ It observe the behavior of distinct system calls between and within microservices
- 4 ☐ It change the behavior of a microservice at runtime

Solution -

It observe the behavior of distinct system calls between and within microservices

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When the user participation isn't involved, which of the following models will not result in the desired output?

- 1 ☒ Prototyping & Waterfall
- 2 ☐ Prototyping & RAD
- 3 ☐ Prototyping & Spiral
- 4 ☐ RAD & Spiral

Solution -

Prototyping & Waterfall

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_____ is now one of the most widely used software development processes.

- 1 ☐ V model
- 2 ☒ Waterfall STLC model ✓
- 3 ☐ Both A and B
- 4 ☐ None of the above

Solution -

Waterfall STLC model

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Which of the following model is a software enterprise development phrase used to signify a kind of Agile relationship among development and IT operations.

- 1 ☐ Waterfall
- 2 ☒ DevOps ✓
- 3 ☐ Agile
- 4 ☐ Incremental

Solution -

DevOps

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Data Items in a data dictionary are description of

- 1 ☐ Input data
- 2 ☐ data flows
- 3 ☐ data stores
- 4 ☒ All of the above ✓

Solution -

All of the above

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RAD stands for

- 1 ☒ Rapid Application Development ✓
- 2 ☐ Required Application Development
- 3 ☐ Rapid Application Developers
- 4 ☐ Rapid Application Disposition

Solution -

Rapid Application Development

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A host machine has four CPUs available and two running containers. The sysadmin would like to assign two CPUs to each container. Which of the following commands achieves this?

- 1 ☒ Set the '--cpuset-cpus' flag to '1.3' on one container and '2.4' on the other ✓ container.
- 2 ☐ Set the '--cpuset-cpus' flag of the 'dockerd' process to the value 'even

3

- ☐ Set the '--cpu-quota' flag to '1.3' on one container and '2,4' on the other container.

4

- ☐ Set the '--cpuset-cpus' flag to '.5' on both containers

Solution -

Set the '--cpuset-cpus' flag to '1.3' on one container and '2.4' on the other container.

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Find the correct sequence used in Jenkins for a continuous delivery pipeline.

1

- ☐ build, deploy, release and test

2

- ☐ build, deploy, test and release

3

- ☒ build, test, deploy and release ✓

4

- ☐ test, build, deploy and release

Solution -

build, test, deploy and release

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Which of the following isn't a goal of NewOps?

1

- ☐ Serving as an interface between cloud providers and customers.

2

- ☐ Integrating different operations teams like storage, network, server etc.

3

- by removing silos and be aligned with business

☐

- By automating operations, remove the need for human competencies.

✓

4 ☐ None of the above

Solution -

By automating operations, remove the need for human competencies.

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What is a microservice?

- 1 ☐ A design used primarily in functional programming and object-oriented programming
- 2 ☐ A style of design for enterprise systems based on a loosely coupled component architecture ✓
- 3 ☐ A small program that represents discrete logic that executes within a well
- 4 ☐ A very small piece of code that never gets any bigger than 10 lines

Solution -

A style of design for enterprise systems based on a loosely coupled component architecture

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Which of the following software is perfect for software teams in need of advanced agile functionality and structured workflow?

- 1 ☐ JIRA ✓
- 2 ☐ Visual studio
- 3 ☐ Eclipse
- 4 ☐ Trello

Solution -

JIRA

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Which one of these statements is true?

- 1 ☐ git pull does not modify the local branch tip.
- 2 ☒ git fetch does not update the local branch tip. ✓
- 3 ☐ git fetch may result in a merge conflict.
- 4 ☐ Behavior of git fetch and git pull are same

Solution -

git fetch does not update the local branch tip.

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_____ allows one to attach to a container without exiting the container.

- 1 ☒ nsenter ✓
- 2 ☐ docker run
- 3 ☐ cmdr
- 4 ☐ None of the above

Solution -

nsenter

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Which plugin is used to run the selenium test cases in Jenkins?

- 1 ☐ Hudson
- 2 ☒ JUnit ✓
- 3 ☐ Rational Tools
- 4 ☐ Nunit

Solution -

JUnit

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4GT Model is a set of _____

- 1 ☐ Programs
- 2 ☐ CASE Tools
- 3 ☒ Software tools ✓
- 4 ☐ None of the above

Solution -

Software tools

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_____ is a human-friendly data serialization language for all programming languages.

- 1 ☐ XAML

- ☒ 2 XML
- ☐ 3 YAML
- ☐ 4 JSON ✓

Solution -

JSON

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The goal of _____ is to obtain a clear understanding of the system and its shortcomings and to determine opportunities for improvement

- ☐ 1 Feasibility study
- ☒ 2 systems analysis ✓
- ☐ 3 systems definition
- ☐ 4 systems study

Solution -

systems analysis

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Which of the cloud service models available is used as the foundation upon which operating systems and software are hosted?

- ☐ 1 SaaS
- ☒ 2 IaaS ✓
- ☐ 3 PaaS
- ☐ 4 CaaS

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Which of the Git repository having hosting functions?

- 1 ☐ Gitlab
- 2 ☐ Bitbucket
- 3 ☐ SourceForge
- 4 ☐ All of the above ✓

Solution -

All of the above

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A ____ is a combination of virtual resources that simulates the underlying hardware.

- 1 ☐ Host machine
- 2 ☐ Host operating system
- 3 ☐ Virtual Machine ✓
- 4 ☐ Guest operating system

Solution -

Virtual Machine

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Judging the seriousness of a risk by evaluating its probability along with its consequences is called

- 1 ☐ Risk analysis ✓

- ☒ 2 Risk Projection
- ☐ 3 Risk Estimation
- ☐ 4 All of the above

Solution -

Risk analysis