Question 1

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

In the Unified Process, what does the milestone of "Lifecycle Architecture" mean?

Select one:

a. Agreement among the stakeholders about the technical approach.

b. Agreement among the stakeholders about the deployment of the system to actual users.

c. Agreement among stakeholders about the objectives of the project and to proceed with the project.

Feedback

The correct answer is: Agreement among the stakeholders about the technical approach.

Question 2

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Which of the following is NOT true for the Waterfall model, V-model and Sashimi model?

Select one:

a. In these models, we assume that we know requirements really well.

b. These models will be a good model to be used by a start-up implement a new idea that is new to market

c. In these models, the team is expected to know the solution really well.

d. In these models, the cost of change depends on how late we find out about the change. If problem requiring a change is found during the implementation phase, it will be more expensive to fix than one found during the design phase.

Feedback

The correct answer is: These models will be a good model to be used by a start-up implement a new idea that is new to market

Question 3

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Which of the following is considered the most difficult in the software development process?

Select one:

a. Accurately identifying user needs

b. Testing the solution with users

c. Developing a Java program to meet the designed solution

d. Determining the accurate market price for the finished product

Feedback

The correct answer is: Accurately identifying user needs

Question 4

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Which of the following models is best suited for a system that benefits from the separation of complexity and processing between work which can be done locally and that which should be completed on a shared, remote service?

Select one:

a. event-based

b. client-server

c. layered

d. pipe-and-filter

Feedback

The correct answer is: client-server

Question 5

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

In the incremental model variation where you do requirements and design for all of the application once and then just increment on implementation, testing, and deployment, are you making the process more suitable for a predictive or adaptive situation?

Select one:

a. Both

b. Predictive

c. Adaptive

d. None

Feedback

The correct answer is: Predictive

Question 6

Incorrect

Mark 0.00 out of 1.00

Not flaggedFlag question

Question text

Which of the following models is best suited for a system that significant shared data that needs to be shared across a variety of components or sub-systems, somewhat like global variables, but with better data integrity?

Select one:

a. pipe-and-filter

b. layered

c. blackboard

d. client-server

Feedback

The correct answer is: blackboard

Question 7

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Which of the following is most preferred?

Select one:

a. Having more than one module rely on the same version of the RSS standard (external coupling)

b. Having two modules rely on the same global information structure (common coupling)

c. Allowing one module to affect the program flow of another via the use of a state message (message coupling)

d. Allowing one module to affect the program flow of another via the use of a flag (control coupling)

Feedback

The correct answer is: Allowing one module to affect the program flow of another via the use of a state message (message coupling)

Question 8

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Which of the following is true for agile projects?

Select one:

a. Scrum is the best way to implement agile.

b. If somebody says, they use an agile methodology, they must be doing either Scrum or XP.

c. Agile methods do not require rework because the team knows exactly what they building. No refactoring of code is needed.

d. An agile methodology may help a team to go to market early by delivering with limited functionality.

Feedback

The correct answer is: An agile methodology may help a team to go to market early by delivering with limited functionality.

Question 9

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Which of the following is an example of black-box testing?

Select one:

a. Developing test cases to exercise error-prone constructs

b. Developing additional test cases to force a division by zero

c. Developing test cases based on typical user behaviour

d. Developing additional tests when every if statement does not evaluate both true and false once given the current test suite

Feedback

The correct answer is: Developing test cases based on typical user behaviour

Question 10

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

When is a sprint complete?

Select one:

a. When all tasks are complete.

b. When all committed product backlog items meet their definition of done.

c. It depends.

d. When the sprint duration ends. For example, if sprints are 2 weeks long, then the sprint is complete at the end of those 2 weeks.

Feedback

The correct answer is: When the sprint duration ends. For example, if sprints are 2 weeks long, then the sprint is complete at the end of those 2 weeks.

Question 11

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

A team is working on a problem where the requirements are well known but they are short on time. They prefer to start the design phase when some of the requirements have been defined. Similarly, they want to start coding when the design for part of the system is ready. What model will best fit their needs?

Select one:

a. Waterfall

b. Sashimi

c. V-model

d. Spiral

Feedback

The correct answer is: Sashimi

Question 12

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Select situations listed below where you would NOT use the Unified Process framework.

Select one:

a. All requirements are not known early in the project.

b. Very small, simple project where the problem and solution are well known.

c. Medium-sized project with some risks involved.

d. Situation where the organization wants to deliver part of the application early to capture the market ahead of competition.

Feedback

The correct answer is: Very small, simple project where the problem and solution are well known.

Question 13

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Which of the following models is best suited for a system that includes several subsets of functionality that are used in more than one area of the system?

Select one:

a. blackboard

b. layered

c. event-based

d. pipe-and-filter

Feedback

The correct answer is: pipe-and-filter

Question 14

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Which of the following is NOT an aspect of software design

Select one:

a. Modularity

b. Cohesion

c. Coupling

d. Polymorphism

Feedback

The correct answer is: Polymorphism

Question 15

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Which of the following is a mistake made by the developer?

Select one:

a. Failure

b. Fault

c. Latent Error

d. Effective Error

Feedback

The correct answer is: Fault

Question 16

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

In your current project, you have access to some intern development resources, which are not currently operating at full capacity. You also know that the testing timeline will be truncated, due to delays in critical-path module development. Which strategy should you employ?

Select one:

a. Allow the testing team to work without (or with quick-to-develop) drivers and stubs, and utilize the intern resources to aid testing once all critical-path development is complete

b. Make no changes to the current project testing or development allocations, utilizing intern resources to create documentation.

c. Allow the testing team to work without (or with quick-to-develop) drivers and stubs, while using intern resources to aid critical-path development

d. Utilize the intern resources to design and develop drivers and stubs, while work continues on critical-path module development

Feedback

The correct answer is: Utilize the intern resources to design and develop drivers and stubs, while work continues on critical-path module development

Question 17

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

When all of the responsibilities of a module are easily classified as being strongly related, this is an example of high what?

Select one:

a. Cohesion

b. Information hiding

c. Coupling

d. Modularity

Feedback

The correct answer is: Cohesion

Question 18

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Which of the following is NOT an example of a non-functional requirement?

Select one:

a. The developing team shall use the spiral model of software development lifecycle.

b. The messages between the client and server shall be in YAML 1.2 format.

c. The user shall be able to select the course number.

d. Communication between the client and server will be expressed in EBCDIC endoding.

Feedback

The correct answer is: The user shall be able to select the course number.

Question 19

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Which of the following is an example of validation?

Select one:

a. software is well-received by the user

b. use of the software provides the correct results as documented

c. ensuring the system locks out an account after three failed log-in attempts

d. software recognizes incorrect inputs

Feedback

The correct answer is: software is well-received by the user

Question 20

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Which of these is proper definition of software architecture?

Select one:

a. integrating small systems with no individual business value into larger ones

b. planning and pricing the resources involved with developing a large-scale software system, including presenting such plans and budgets to senior level executives for funding

c. partitioning large systems into smaller ones that can be created seperately, have individual business value, and can be easily integrated

d. all of the above

Feedback

The correct answer is: partitioning large systems into smaller ones that can be created seperately, have individual business value, and can be easily integrated

Question 21

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

In the incremental model variation where you do requirements and design for all of the application once and then just increment on implementation, testing, and deployment, are you making the process more suitable for a predictive or adaptive situation?

Select one:

a. Predictive

b. None

c. Both

d. Adaptive

Feedback

The correct answer is: Predictive

Question 22

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

What do we mean by Velocity in agile terms?

Select one:

a. It is a velocity of the individual team members, not the team

b. It is calculated at the team level and represents how much work a team can get done in an iteration.

c. It represents actual work done in the first iteration of project.

d. It is calculated at the team level and represents the estimated duration of current iteration.

Feedback

The correct answer is: It is calculated at the team level and represents how much work a team can get done in an iteration.

Question 23

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

What is the recommended amount of time to spend on the requirements stage?

Select one:

a. 3-5%

b. 10%

c. 0%

d. 20%

Feedback

The correct answer is: 3-5%

Question 24

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

If you create a local repository in a folder with existing files, what will be the status of the files?

Select one:

a. Modified

b. Committed

c. Untracked

d. Staged

Feedback

The correct answer is: Untracked

Question 25

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

A team divided the application they were building into 4 parts and planning to build one part at a time. To build each part, they are planning to go through the steps of requirements, design, implementation, test, and deployment. Also, they are planning to complete each part fully with high fidelity. By fidelity we mean the completeness of the features implemented in each part. Based on this information, what type of model do you suggest they use for their software development process?

Select one:

a. Iterative and Incremental

b. Incremental

c. Iterative

Feedback

The correct answer is: Incremental

Question 26

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Where does software design fit in the traditional waterfall software development lifecycle?

Select one:

a. Between specification and architecture

b. Before requirements

c. Between architecture and implementation

d. Between implementation and deployment

Feedback

The correct answer is: Between architecture and implementation

Question 27

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

After you clone a repository, which one of the following is true?

Select one:

a. Only the most recent commit is available locally.

b. New commits to the local repository will automatically be pushed to the remote repository.

c. New commits on the remote repository will automatically be added to the local repository.

d. The remote repository information is available in the local repository.

Feedback

The correct answer is: The remote repository information is available in the local repository.

Question 28

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

The ability to use a built-in function of a programming language to generate a random number is an example of which of the following?

Select one:

a. Information hiding

b. Modularity

c. Cohesion

d. Coupling

Feedback

The correct answer is: Information hiding

Question 29

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Analyzing the extent to which other modules must change when a module is modified is an example of which of the following?

Select one:

a. Cohesion

b. Modularity

c. Coupling

d. Information hiding

Feedback

The correct answer is: Coupling

Question 30

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

What must you do to add a new file to the next commit?

Select one:

a. Tag the file.

b. Push the file.

c. Check out the file.

d. Add the file to the staging area.

Feedback

The correct answer is: Add the file to the staging area.

Question 31

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Select situations listed below where you would NOT use the Unified Process framework.

Select one:

a. Situation where the organization wants to deliver part of the application early to capture the market ahead of competition.

b. Very small, simple project where the problem and solution are well known.

c. All requirements are not known early in the project.

d. Medium-sized project with some risks involved.

Feedback

The correct answer is: Very small, simple project where the problem and solution are well known.

Question 32

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

What element(s) of the WRSPM model belong in the environment (including the overlap between environment and system)?

Select one:

a. W

b. R, S

c. W, R, S

d. W, R

Feedback

The correct answer is: W, R, S

Question 33

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Which of the following is NOT true for the Waterfall model, V-model and Sashimi model?

Select one:

a. These models will be a good model to be used by a start-up implement a new idea that is new to market

b. In these models, the team is expected to know the solution really well.

c. In these models, the cost of change depends on how late we find out about the change. If problem requiring a change is found during the implementation phase, it will be more expensive to fix than one found during the design phase.

d. In these models, we assume that we know requirements really well.

Feedback

The correct answer is: These models will be a good model to be used by a start-up implement a new idea that is new to market

Question 34

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

In Scrum, how is Product Backlog Arranged?

Select one:

a. Large items at the top, small items at the bottom

b. Into categories, P1, P2, P3, etc.

c. Items are randomly arranged

d. Most important items at the top, least important items at the bottom.

Feedback

The correct answer is: Most important items at the top, least important items at the bottom.

Question 35

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Immediately after you commit, where is the commit located?

Select one:

a. Remote repository

b. Neither repository

c. Local repository and remote repository

d. Local repository

Feedback

The correct answer is: Local repository

Question 36

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Which of following is NOT true about incremental and iterative models?

Select one:

a. An incremental model is one where you can build each part of the system individually but you release all at once.

b. In a model which is both iterative and incremental, we release features when they are usable. Over time the development team improves existing features and adds new ones

c. Incremental approaches release features as they are finished with high fidelity.

d. Iterative approaches release every feature with low fidelity and then improve fidelity over time. By fidelity we mean the completeness of the feature.

Feedback

The correct answer is: An incremental model is one where you can build each part of the system individually but you release all at once.

Question 37

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

In Scrum, when is the sprint backlog created?

Select one:

a. At the beginning of the project

b. During the sprint planning meeting

c. Whenever needed

d. During the backlog refinement meeting

Feedback

The correct answer is: During the sprint planning meeting

Question 38

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Which of the following are necessary before proper testing?

Select one:

a. inputs, expected output, an oracle, and the actual output

b. inputs, expected output, and an oracle

c. inputs and expected output

d. inputs which cause issues

Feedback

The correct answer is: inputs, expected output, and an oracle

Question 39

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Which of these is a user requirement?

Select one:

a. Allow an authorized user to post a message of no more than 136 characters to the Facebook POST API

b. Use the MariaDB database for internal data persistance

c. Allow the user to post a message to Facebook

d. Retry posting the message up to 3 times every 5 minutes if the post is rejected by the server

Feedback

The correct answer is: Allow the user to post a message to Facebook

Question 40

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

In which of the following situations, would you NOT recommend using an agile process?

Select one:

a. For a project where requirements are well known but the technology and solution are unknown (i.e., changes expected in the solution).

b. For a project where change is not expected. requirements are well known, and the solution is both well known and repeatable.

c. For a project where the customer wants to build an e-commerce website but the development team has never done something like this before. Further, the company knows that they want to build an e-commerce website but are not sure about the functionality at this time.

d. For a project where the customer has an idea of what they want to build but is not sure of his/her exact needs.

Feedback

The correct answer is: For a project where change is not expected. requirements are well known, and the solution is both well known and repeatable.

Question 41

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

The CEO asks a team member to do some work outside the goals of the current sprint in progress. What should the team member do?

Select one:

a. Add it to the current sprint.

b. Add it to the next sprint.

c. Inform the product owner so he can work with the CEO and if it is still necessary to get this work done in current sprint, it should be discussed with in the team.

d. Add it to the current sprint while swapping out committed work of equal size.

Feedback

The correct answer is: Inform the product owner so he can work with the CEO and if it is still necessary to get this work done in current sprint, it should be discussed with in the team.

Question 42

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Which of the following matches the terms to the correct definition?

Select one:

a. Requirements - solution properties designed to solve problem; Specification - user needs in user language

b. Requirements - user needs in user language; Specification - solution properties designed to solve problem

Feedback

The correct answer is: Requirements - user needs in user language; Specification - solution properties designed to solve problem

Question 43

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

A team divided the application they were building into 4 parts and planning to build one part at a time. To build each part, they are planning to go through the steps of requirements, design, implementation, test, and deployment. Also, they are planning to complete each part fully with high fidelity. By fidelity we mean the completeness of the features implemented in each part. Based on this information, what type of model do you suggest they use for their software development process?

Select one:

a. Iterative

b. Iterative and Incremental

c. Incremental

Feedback

The correct answer is: Incremental

Question 44

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Which of the following is NOT true for Spiral Model?

Select one:

a. You always have to perform all the steps mentioned in the Spiral Model diagram

b. It minimizes waste by allowing teams to tailor the effort put into different processes based on the risk involved in each cycle.

c. Spiral Model is not a model but a process model generator.

d. It is suitable for very large high risk projects

Feedback

The correct answer is: You always have to perform all the steps mentioned in the Spiral Model diagram

Question 45

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

What is a local copy of a remote repository called?

Select one:

a. Master

b. Clone

c. Origin

d. Branch

Feedback

The correct answer is: Clone

Question 46

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Which of the following is NOT the benefits of the Unified Process?

Select one:

a. Flexible for handling change.

b. Supports quality and reuse by putting an emphasis on architecture.

c. Easy to understand and implement.

d. Supports / encourages risk identification and mitigation.

Feedback

The correct answer is: Easy to understand and implement.

Question 47

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

When is testing complete?

Select one:

a. When you find the last bug

b. When you have completed all the tests in the test plan

c. When you run out of time

d. When you have tested every input

Feedback

The correct answer is: When you run out of time

Question 48

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Which of the following is LEAST desirable?

Select one:

a. including functionality which relys on the same input

b. including functionality which occurs around the same time

c. including functionality which entirely encapsulates all the necessary function for a specific task

d. including functionality which modifies an object's own attributes

Feedback

The correct answer is: including functionality which occurs around the same time

Question 49

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

When a file is first placed in the working tree, what is its status?

Select one:

a. Staged

b. Untracked

c. Modified

d. Committed

Feedback

The correct answer is: Untracked

Question 50

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

What is a Requirements Specification?

Select one:

a. A process, how the requirements are written (specified)

b. Both

c. Neither

d. A product, a written specification of the requirements

Feedback

The correct answer is: Both

Question 51

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Which one of these statements about remote repositories is true?

Select one:

a. A remote repository usually has a working tree.

b. A remote repository usually has a staging area.

c. By convention, remote repository names end in ".git".

d. You must have one remote repository for each local repository.

Feedback

The correct answer is: By convention, remote repository names end in ".git".

Question 52

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

In the Unified Process, what does the milestone of "Lifecycle Architecture" mean?

Select one:

a. Agreement among the stakeholders about the technical approach.

b. Agreement among stakeholders about the objectives of the project and to proceed with the project.

c. Agreement among the stakeholders about the deployment of the system to actual users.

Feedback

The correct answer is: Agreement among the stakeholders about the technical approach.

Question 53

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Which of the following is true for adaptive models? (Select any two)

Select one:

a. You are not sure about what exactly you want to build

b. You discourage change during the development process

c. You may end-up building something different than what you originally thought

d. Adaptive model is the best model in all situations

Feedback

The correct answer is: You may end-up building something different than what you originally thought

Question 54

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

A team is working on a problem where the requirements are well known but they are short on time. They prefer to start the design phase when some of the requirements have been defined. Similarly, they want to start coding when the design for part of the system is ready. What model will best fit their needs?

Select one:

a. V-model

b. Waterfall

c. Sashimi

d. Spiral

Feedback

The correct answer is: Sashimi

Question 55

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Which of following is NOT true about incremental and iterative models?

Select one:

a. In a model which is both iterative and incremental, we release features when they are usable. Over time the development team improves existing features and adds new ones

b. Incremental approaches release features as they are finished with high fidelity.

c. Iterative approaches release every feature with low fidelity and then improve fidelity over time. By fidelity we mean the completeness of the feature.

d. An incremental model is one where you can build each part of the system individually but you release all at once.

Feedback

The correct answer is: An incremental model is one where you can build each part of the system individually but you release all at once.

Question 56

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Which of the following would be considered a sub-system, rather than a module?

Select one:

a. A set of classes which convert various values based on environment or parameter information

b. A class which provides a service (e.g. AccountCreationService)

c. A set of classes which generates reports

d. A class which represents the paying customer

Feedback

The correct answer is: A set of classes which generates reports