### Question 1

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

High coupling among modules makes it

Select one:

a. Difficult to understand and maintain the product

b. Difficult to implement and debug

c. Expensive to develop the product as the modules having high coupling cannot be developed independently

d. All of the above \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#### **Feedback**

The correct answer is: All of the above

### Question 2

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

In a classical waterfall model, which phase precedes the design phase?

Select one:

a. Coding and testing

b. Maintenance

c. Requirements analysis and specifications \*\*\*\*\*\*\*\*\*\*\*\*

d. Feasibility Study

#### **Feedback**

The correct answer is: Requirements analysis and specifications

### Question 3

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Regression testing should be normal part of integration testing because as a new module is added to the system new.

Note: This has multiple answers

Select one or more:

a. Control logic is invoked \*\*\*\*\*\*\*\*\*\*\*\*

b. Data flow paths are established \*\*\*\*\*\*\*\*\*\*

c. Drivers require testing

d. None of these

#### **Feedback**

The correct answer is: Control logic is invoked, Data flow paths are established

### Question 4

Incorrect

Mark 0.00 out of 1.00

Remove flag

#### **Question text**

Select one:

a. Architectural design elements

b. Component Level design elements

c. Data Design elements \*\*\*\*\*\*\*\*\*\*\*

d. Interface design elements

#### **Feedback**

The correct answer is: Data Design elements

### Question 5

Partially correct

Mark 0.50 out of 1.00

Flag question

#### **Question text**

Top down integration testing has as its major advantage (s) that

Note: This has multiple answers

Select one or more:

a. low level modules never need testing

b. Major decision points are tested early \*\*\*\*\*\*\*\*\*\*\*

c. No drivers need to be written \*\*\*\*\*\*\*\*\*\*\*

d. No stubs need to be written

#### **Question text**

Process technology tools allow software organizations to compress schedules by skipping unimportant activities.

Select one:

True\*\*\*\*\*\*\*\*\*\*

False

#### **Feedback**

The correct answer is 'True'.

### Question 7

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

In general software only succeeds if its behavious is consistent with the objectives of its designers.

Select one:

True

False \*\*\*\*\*\*\*\*\*\*\*

#### **Feedback**

The correct answer is 'False'.

### Question 8

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Since modularity is an important desing goal it is not possible to have too many modules in a proposed design

Select one:

True

False \*\*\*\*\*\*\*\*\*\*\*\*\*\*

#### **Feedback**

The correct answer is 'False'.

### Question 9

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Software deteriorates rather than wears out because

Select one:

a. Software suffers from exposure to hostile enviornments

b. Defects are more likely to arise after software has been used often

c. Mltiple change requests introduce errors in component interactions \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

d. Software spare parts become harder to order

#### **Feedback**

The correct answer is: Mltiple change requests introduce errors in component interactions

### Question 10

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Software reliability problems can almost always be traced to

Note: This has multiple answers

Select one or more:

a. Errors in accuracy

b. Errors in design \*\*\*\*\*\*\*\*\*\*\*

c. Errors in implementation \*\*\*\*\*\*\*\*\*\*\*\*\*

d. Errors in operation

#### **Feedback**

The correct answer is: Errors in design, Errors in implementation

### Question 11

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of the following is not considered a stakeholder in the software process?

Select one:

a. Customers

b. End users

c. Project managers

d. Sales people \*\*\*\*\*\*\*\*\*\*\*\*\*

#### **Feedback**

The correct answer is: Sales people

### Question 12

Partially correct

Mark 0.50 out of 1.00

Flag question

#### **Question text**

Which of these are standard for assessing software processes?*(This has multiples correct answers)*

Select one or more:

a. SEI

b. SPICE\*\*\*\*\*\*\*\*\*\*\*\*

c. ISO 9000

d. ISO 9001 \*\*\*\*\*\*\*\*\*\*\*\*\*\*

#### **Feedback**

The correct answer is: SPICE, ISO 9001

### Question 13

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Most software development projects are initiated to try to meet some business need

Select one:

True \*\*\*\*\*\*\*\*\*\*

False

#### **Feedback**

The correct answer is 'True'.

### Question 14

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of these software characteristics is not a factor contributing to project coordination difficulties?

Select one:

a. Interoperability

b. Performance \*\*\*\*\*\*\*\*\*\*\*\*\*

c. Scale

d. Uncertainity

#### **Feedback**

The correct answer is: Performance

### Question 15

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

Which of the following activities is not part of the software reengineering process model?

Select one:

a. Foward engineering

b. Invenroty analysis

c. Prototyping\*\*\*\*\*\*\*\*\*\*

d. Reverse Engineering

#### **Feedback**

The correct answer is: Prototyping

### Question 16

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

A stakeholder is anyone who will purchase the completed software system under development.

Select one:

True

False \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#### 

Which of the following is the characteristics of testable software?

Select one:

a. Observability

b. Simplicity

c. Stability

d. All of these \*\*\*\*\*\*\*\*\*\*\*\*\*

#### **Feedback**

The correct answer is: All of these

### Question 18

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Prototyping life cycle model is the most suitable one for undertaking a software development project susceptible to schedule slippage.

Select one:

True

False \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

**Feedback**

The correct answer is 'False'.

### Question 19

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Software is a product and can be manufacturedd using the same technologies used for other engineering artifacts

Select one:

True

False \*\*\*\*\*\*\*\*\*\*\*\*

#### **Feedback**

The correct answer is 'False'.

### Question 20

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

People who perform software quality assurance must look at the software from the customer's perspective.

Select one:

True \*\*\*\*\*\*\*\*\*\*\*\*\*

False

#### **Feedback**

The correct answer is 'True'.

### Question 21

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

The ISO quality assurance standard that applies to software engineering is

Select one:

a. ISO 9000

b. ISO 9001 \*\*\*\*\*\*\*\*\*\*\*

c. ISO 9002

d. ISO 9003

#### **Feedback**

The correct answer is: ISO 9001

### Question 22

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Spiral life cycle model is not suitable for products that are vulnerable to large number of risks.

Select one:

True

False \*\*\*\*\*\*\*\*\*\*\*

#### 

What is the normal order of activities in which traditional software testing is organized?

Note: This has multiple answers

Select one or more:

a. Integration testing \*\*\*\*\*\*\*\*\*\*

b. System testing \*\*\*\*\*\*\*\*\*\*

c. Unit testing \*\*\*\*\*\*\*\*\*\*\*\*\*

d. Validation testing \*\*\*\*\*\*\*\*\*\*\*

#### **Feedback**

The correct answer is: Integration testing, System testing, Unit testing, Validation testing

### Question 24

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

The control specification represents the system behavior using UML sequence and state diagrams.

Select one:

True\*\*\*\*\*\*\*\*\*\*\*\*\*\*

False

#### **Feedback**

The correct answer is 'True'.

### Question 25

Partially correct

Mark 0.50 out of 1.00

Flag question

#### **Question text**

Which of the following need to be assessed during unit testing?

Note: This has multiple answers.

Select one or more:

a. Algorithmic performance

b. Code stability

c. Error handling \*\*\*\*\*\*\*\*\*\*

d. Execution paths\*\*\*\*\*\*\*\*\*\*\*

#### **Feedback**

The correct answer is: Error handling, Execution paths

### Question 26

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

By collecting software metrics and making use of existing software reliability models it is possible to develop meaningful guidelines for determining when software testing is done.

Select one:

True \*\*\*\*\*\*\*\*\*\*\*\*

False

#### **Feedback**

The correct answer is 'True'.

### Question 27

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

The best reason for using Independent Software test teams is that

Select one:

a. Software developers do not need to do any testing

b. strangers will test the software mercilessly

c. testers do not get involved with the project until testing begins

d. The conflits of interest between developers and testers is reduced \*\*\*\*\*\*\*\*\*\*\*\*\*

#### **Feedback**

The correct answer is: The conflits of interest between developers and testers is reduced

### Question 28

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Software supportability is not concerned with either the provision of hardware or infrastructure.

Select one:

True

False \*\*\*\*\*\*\*\*\*\*\*

#### **Feedback**

The correct answer is 'False'.

### Question 29

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Metrics can be used to indicate the relative strength of a software quality attribute.

Select one:

True \*\*\*\*\*\*\*\*\*\*\*\*

False

#### **Feedback**

The correct answer is 'True'.

### Question 30

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of these are critical practices for performance based project management?

Note: This has multiple answers

Select one or more:

a. Assessing product usability

b. Defect tracking against quality targets \*\*\*\*\*\*\*\*

c. Empirical cost estimation \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

d. Formal risk management \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#### **Feedback**

The correct answer is: Defect tracking against quality targets, Empirical cost estimation, Formal risk management

### Question 31

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

Why is it important to measure the process of software engineering and software it produces?

Select one:

a. It is really not necessary unless the project is extremely complex

b. To determine costs and allow a profit margin to be set

c. To determine whether a software group is improving or not\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

d. To make software engineering more like other engineering processes

#### **Feedback**

The correct answer is: To determine whether a software group is improving or not

### Question 32

Partially correct

Mark 0.67 out of 1.00

Flag question

#### **Question text**

The architectural style encompasses which of the following elements?

Note: This has multiple answers.

Select one or more:

a. Constraints \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

b. Set of components \*\*\*\*\*\*\*\*\*\*\*\*\*

c. Semantic Models\*\*\*\*\*\*\*\*\*\*\*\*\*

d. Syntactic Models

#### **Feedback**

The correct answer is: Constraints, Set of components, Semantic Models

### Question 33

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

UML activity diagram are useful in representing which analysis model elements?

Select one:

a. Behavioral elements

b. Class based elements

c. Flow based elements

d. Scenatio based elements. \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#### **Feedback**

The correct answer is: Scenatio based elements.

### Question 34

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Reengineering client/server systems begins with a thorough analysis of the business environment that encomapasses the existing computing system.

Select one:

True \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

False

#### **Feedback**

The correct answer is 'True'.

### Question 35

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

Which of the following is not an example of infrastructure components that may need to be integrated into the software acrhitecture?

Select one:

a. Communication Component

b. Database components

c. Interface components\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

d. Memory management components

#### **Feedback**

The correct answer is: Interface components

### Question 36

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

Effective software project management focuses on

Select one:

a. People, performance, payoff, product

b. People, product, performance, process

c. People, product, process, project\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

d. People, process, payoff, product

#### **Feedback**

The correct answer is: People, product, process, project

### Question 37

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Product and process decomposition occurs simultaneosly as the project plan evolves

Select one:

True \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

False

#### **Feedback**

The correct answer is 'True'.

### Question 38

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

The UML sequence diagram show the order in which system events are processed.

Select one:

True

False \*\*\*\*\*\*\*\*\*\*\*\*\*

#### **Feedback**

The correct answer is 'False'.

### Question 39

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of the follwoing problems can be considered to be contributing to the present software crisis?

*(This has multiple answers)*

Select one or more:

a. Large problem Size \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

b. Lack of rapid progress of software engineering \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

c. Lack of intelligent engineering

d. Shortage of skilled manpower \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#### **Feedback**

The correct answer is: Large problem Size, Lack of rapid progress of software engineering, Shortage of skilled manpower

### Question 40

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

In colaborative requirements gathering the facilitator

Select one:

a. Arranges the meeting place

b. Connot be a customer

c. Controls a meeting \*\*\*\*\*\*\*\*\*\*\*\*\*

d. Must be an outsider

#### **Feedback**

The correct answer is: Controls a meeting

### Question 41

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

Black box testing attempts to find errors in which of the following categories

Select one:

a. Incorrect or missing functions

b. Interface errors

c. performance errors

d. All of these \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#### **Feedback**

The correct answer is: All of these

### Question 42

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

The first step in project planning is to

Select one:

a. Determine the budget

b. Select a team organizational model

c. Determine the project constraints

d. Establish the objectives and scope \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#### **Feedback**

The correct answer is: Establish the objectives and scope

### Question 43

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Among all the phases of the softwaer development lifecycle, which phase consumes the maximum effort?

Select one:

a. Design

b. Maintenance \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

c. Testing

d. Coding

#### **Feedback**

The correct answer is: Maintenance

### Question 44

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of the following in not a characteristic common to all design methods?

Select one:

a. Configuration Management \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

b. Functional component representation

c. Quality assessment guidelines

d. Refinement heuristics

#### **Feedback**

The correct answer is: Configuration Management

### Question 45

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of the following are recongnized process flow types? *(This has multiples correct answers)*

Select one or more:

a. Concurrent Process Flow \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

b. Iterative Process Flow

c. Linear Process Flow \*\*\*\*\*\*\*\*\*\*\*\*\*

d. Spiral Process Flow

#### **Feedback**

The correct answer is: Concurrent Process Flow, Linear Process Flow

### Question 46

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of these benefits can be achieved when software is restructured?

Note: This has multiple answers

Select one or more:

a. Higher quality progams \*\*\*\*\*\*\*\*\*\*\*\*\*

b. Reduced maintenance effort \*\*\*\*\*\*\*\*\*

c. Software easier to test \*\*\*\*\*\*\*\*\*\*\*\*\*\*

d. None of the above

#### **Feedback**

The correct answer is: Higher quality progams, Reduced maintenance effort, Software easier to test

### Question 47

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Evolutionary life cycle model is ideally suited for development of very small software products typically requiring a few months of development effort.

Select one:

True

False \*\*\*\*\*\*\*\*\*\*\*\*

#### **Feedback**

The correct answer is 'False'.

### Question 48

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

Which of the following is NOT an element of a requirement model?

Select one:

a. Behavioral elements

b. Class based elements

c. Data elements \*\*\*\*\*\*\*\*\*\*\*\*\*

d. Scenatio based elements.

#### **Feedback**

The correct answer is: Data elements

### Question 49

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

In requirement validation the requirements model is reviewed to ensure its technical feasibility

Select one:

True

False \*\*\*\*\*\*\*\*\*\*\*\*\*

#### **Feedback**

The correct answer is 'False'.

### Question 50

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Software safety is a quality assurance activity that focuses on hazards that

Select one:

a. Affect the reliability of a software component

b. May cause an entire system to fail \*\*\*\*\*\*\*\*\*\*\*

c. May result from user input errors

d. Prevent profitable marketing of final product

Among development phases of software cyce, which phase typically consumes the maximum effort?

a. Requirement analysis and specification

b. Design

c. Coding

d. Testing \*\*\*\*\*

Among all the phases of the softwaer development lifecycle, which phase consumes the maximum effort?

a. Design

b. Maintenance \*\*\*\*

c. Testing

d. Coding

Creation and refinement of use cases is an important part of secnario based scheduling.

True \*\*\*\*\*\*\*

False

DEvelopers and customers create use cases to help the softare team understand how different classes of end users will use functions.

True \*\*\*\*\*\*

False

Evolutionary life cycle model is ideally suited for development of very small software products typically requiring a few months of development effort.

True

False \*\*\*\*\*

Software deteriorates rather than wears out because

a. Software suffers from exposure to hostile enviornments

b. Defects are more likely to arise after software has been used often

c. Mltiple change requests introduce errors in component interactions \*\*\*\*\*\*\*

d. Software spare parts become harder to order

Software engineering umbrella activities are only applied during the initial phase of software development projects

True

False \*\*\*\*\*\*

WebApps are a mixture of print publishing and software development, making their development outside the realm of software engineering practice.

True

False \*\*\*\*\*

Which of the items listed below is not one of the software engineering layers?

a. Processes

b. Manufacturing \*\*\*\*\*

c. Methods

d. Tools

Which of the following does not concerns the modern software engineers?

a. Why does computer hardware cost so much" \*\*\*\*\*

b. Why does softare take a long time to develop?

c. Why does it cost so much to develop a piece of software?

d. Why can't software errors be removed from products prior to delivery?

Which of these are the 5 generic software engineering framework activities?

a. Communication, Planning , Modelling, Construction, Deployment \*\*\*\*\*\*

b. Communication, Risk management, Measurement, Production, Reviewing

c. Analysis, designing, programming, debugging, maintenance

d. Analysis, Planning, Designing, Programming, Testing

Planning ahead for software reuse reduces the cost and increases the value of the systems into which they are incorporated.

True \*\*\*\*\*\*

False

The essesnce of software engineering practice might be describe as :

Undestand the problem, plan a solution, carry out the plan, and examine the result for accuracy.

True \*\*\*\*\*

False

In agile process models the only deliverable work product is the working program.

True

False \*\*\*\*\*

In a classical waterfall model, which phase precedes the design phase?

a. Coding and testing

b. Maintenance

c. Requirements analysis and specifications \*\*\*\*\*\*

d. Feasibility Study

Out of the following, which model is considered as the most general. and the others as specialized of it?

a. Classical Waterfall Model \*\*\*\*\*

b. Iterative Waterfall Model

c. Prototype model

d. Spiral Model

Prototyping life cycle model is the most suitable one for undertaking a software development project susceptible to schedule slippage.

True

False \*\*\*\*\*

Spiral life cycle model is not suitable for products that are vulnerable to large number of risks.

Select one:

True

False \*\*\*\*\*

Which of the following are recongnized process flow types? *(This has multiples correct answers)*

a. Concurrent Process Flow \*\*\*\*\*\*\*\*\*\*\*

b. Iterative Process Flow

c. Linear Process Flow \*\*\*\*\*\*\*\*\*\*\*\*\*\*

d. Spiral Process Flow

Software processes can be contructed out of pre-existing software patterns to best meet the needs of a software project.

True \*\*\*\*\*

False

Which of these are standard for assessing software processes?*(This has multiples correct answers)*

a. SEI

b. SPICE \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

c. ISO 9000

d. ISO 9001 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Requirements engineering is a generic process that does not vary from one software project to another.

True \*\*\*\*\*\*\*

False

Which of the follwoing is not one of the context free questions that would be used during project inception?

a. What will be the economic benefit from a good solution?

b. Who is behind the request for work?

c. Who will pay for the work? \*\*\*\*\*\*\*

d. Who will use the solution?

In colaborative requirements gathering the facilitator

a. Arranges the meeting place

b. Connot be a customer

c. Controls a meeting \*\*\*\*\*\*\*

d. Must be an outsider

The work product during requirement elicitation will vary depending on the

a. Size of the budget

b. Size of the product being built \*\*\*\*\*\*

c. Software process being used

d. Stakeholders needs

The result of the requirements engineering task is an analysis model that defines which of the following problem domain?

a. Information

b. Functional

c. Behavioral

d. All of the above \*\*\*\*\*\*

In requirement validation the requirements model is reviewed to ensure its technical feasibility

True

False \*\*\*\*\*

Which of the following is NOT an element of a requirement model?

a. Behavioral elements

b. Class based elements

c. Data elements \*\*\*\*\*\*\*\*\*\*\*

d. Scenario based elements.

#### 

Evolutionary software models are

a. Interactive in nature

b. Can easily accomodate product requirements chages

c. Do not generally produce throwaway systems

d. All of the above \*\*\*\*\*\*\*\*\*\*

A module is said to have logical cohesion , if

a. It performs a set of tasks that relate to each other very loosely

b. All the functions of the module are executed within the same time span

c. All elements of the module perform similar operations, e.g. error handling, data input, data output etc. \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

d. None of the above

#### 

#### 

When using structured design methodologies the process of stepwise refinement is unnecessary

True

False \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#### 

Which design model elements are used to depict a model of information represented from the user's view?

a. Architectural design elements

b. Component Level design elements

c. Data Design elements \*\*\*\*\*\*\*\*\*\*\*\*

d. Interface design elements

#### 

#### 

Which design model is equivalent to a set of detailed drawings for each room in a house?

a. Architectural Design

b. Component level design \*\*\*\*\*\*\*\*\*

c. Data design

d. Interface design

The criteria used to assess the quality of an architectural design should be based on

Note: This has multiple answers

Select one or more:

a. Accessibility

b. Control \*\*\*\*\*\*\*\*\*\*

c. Data \*\*\*\*\*\*\*\*\*

d. Implementation

#### 

Which of the following in not a characteristic common to all design methods?

a. Configuration Management \*\*\*\*\*\*\*\*\*\*\*\*

b. Functional component representation

c. Quality assessment guidelines

d. Refinement heuristics

#### 

Most software development projects are initiated to try to meet some business need

True \*\*\*\*\*\*\*\*\*\*\*\*\*\*

False

Which of these is not one of the phase names defined by the unified process model for software development?

a. Inception

b. Elaboration

c. Construction \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

d. Validation

The control specification represents the system behavior using UML sequence and state diagrams.

True \*\*\*\*\*\*\*\*\*\*\*\*

False

Which of the following is not one of the five design class types?

a. Business domain classes

b. Entity Classes \*\*\*\*\*\*\*\*\*\*\*\*

c. Process Classes

d. User Interface Classes

#### 

Process technology tools allow software organizations to compress schedules by skipping unimportant activities.

True \*\*\*\*\*\*\*\*\*\*\*\*\*

False

Which of the following are areas of concern in the design model?

a. Architecture \*\*\*\*\*\*\*\*

b. Data \*\*\*\*\*\*\*\*

c. Interfaces \*\*\*\*\*\*\*\*\*\*

d. Project Scope

#### 

#### 

The UML sequence diagram show the order in which system events are processed.

True

False \*\*\*\*\*\*\*\*\*\*\*\*

DEsing patterns are not applicable to the design of object oriented software?

True

False \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#### 

#### 

The incremental model of software development is

a. A reasonable approach when requirements are well defined

b. A good approach when a working core product is required quickly \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

c. Best approach to use for projects with large developmet teams \*\*\*\*\*\*\*\*\*\*\* (oficial anser)

d. A revolutionary model that is not used for commercial products

#### 

#### 

The desirable characteristics that every good software design needs are

a. Correctness

b. Understandability

c. Efficiency

d. Maintainability

e. All of the above \*\*\*\*\*\*\*\*

### 

#### 

Which of the following is not an example of infrastructure components that may need to be integrated into the software acrhitecture?

a. Communication Component

b. Database components

c. Interface components \*\*\*\*\*\*\*\*\*\*\*

d. Memory management components

#### 

Which of these are objectives of Team software process?

a. Accelerate software process improvement

b. Allow better time management by highly trained professionals \*\*\*\*\*\*\*\*\*\*\*\*\*

c. Build self directed software teams \*\*\*\*\*\*\*\*\*\*\*\*\*

d. Show managers how to reduce costs and sustain quality

Which of the following problems can be considered to be contributing to the present software crisis?

a. Large problem Size \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

b. Lack of rapid progress of software engineering \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

c. Lack of intelligent engineering

d. Shortage of skilled manpower \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#### 

What is the normal order of activities in which traditional software testing is organized?

a. Integration testing \*\*\*\*\*\*\*

b. System testing \*\*\*\*\*\*\*\*\*\*\*\*\*\*

c. Unit testing \*\*\*\*\*\*\*\*\*\*\*\*

d. Validation testing \*\*\*\*\*\*\*\*\*\*\*\*\*

#### 

By collecting software metrics and making use of existing software reliability models it is possible to develop meaningful guidelines for determining when software testing is done.

True \*\*\*\*\*\*\*\*\*\*\*\*\*\*

False

#### 

Which of the following need to be assessed during unit testing?

a. Algorithmic performance

b. Code stability

c. Error handling \*\*\*\*\*\*\*

d. Execution paths \*\*\*\*\*\*

#### 

Units and stubs are not needed for unit testing because the modules are tested independently of one another

True

False \*\*\*\*\*\*\*\*

Top down integration testing has as its major advantage (s) that

a. low level modules never need testing

b. Major decision points are tested early \*\*\*\*\*\*\*\*

c. No drivers need to be written \*\*\*\*\*\*\*\*

d. No stubs need to be written

#### 

#### 

Regression testing should be normal part of integration testing because as a new module is added to the system new.

a. Control logic is invoked \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

b. Data flow paths are established \*\*\*\*\*\*\*\*\*\*\*\*\*

c. Drivers require testing

d. None of these

Smoke testing might best be described as

a. Bulletproofing shrink wrapped software

b. Rolling integration testing \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

c. Testing that hides implementation errors

d. Unit testing for small programs

Which of the following is the characteristics of testable software?

a. Observability

b. Simplicity

c. Stability

d. All of these \*\*\*\*\*\*

Effective software project management focuses on

a. People, performance, payoff, product

b. People, product, performance, process

c. People, product, process, project \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

d. People, process, payoff, product

Which of the following is not considered a stakeholder in the software process?

a. Customers

b. End users

c. Project managers

d. Sales people \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Organizations that achieve high levels of maturit in people management have a higher likelihood of implementing effective software engineering processes.

True \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

False

The best project team organizational model to use when tackling extremely complex problems is the

a. Closed paradigm

b. Open paradigm \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

c. Random paradigm

d. Synchronous paradigm

Which factors should be considered in choosing the organizational structure for a software team?

a. Degree of communication desired \*\*\*\*\*\*\*\*\*\*\*

b. Predicted size of resulting program \*\*\*\*\*\*\*\*\*\*\*\*\*

c. Rigidity of the delivery date \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

d. Size of the project budget

Which of these software characteristics is not a factor contributing to project coordination difficulties?

a. Interoperability

b. Performance \*\*\*\*\*\*\*\*\*\*\*\*\*

c. Scale

d. Uncertainity

The major areas of problem decompositon during the project scoping activity are the

a. Customer workflow

b. Functionalities to be delivered \*\*\*\*\*\*\*\*\*\*\*\*\*\*

c. Process used to deliver functionality \*\*\*\*\*\*\*\*\*\*\*\*\*\*

d. Software process model

#### 

#### 

Product and process decomposition occurs simultaneosly as the project plan evolves

True \*\*\*\*\*\*\*\*\*

False

#### 

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#### 

How much effort is typically expended by a software organization on software maintenance?

a. 20%

b. 40%

c. 60% \*\*\*\*\*\*\*\*\*\*

d. 80%

Software supportability is not concerned with either the provision of hardware or infrastructure.

True

False \*\*\*\*\*\*\*\*\*\*

#### 

Software reengineering process model includes restructuring activities for which of the following work items?

a. Code \*\*\*\*\*\*\*\*\*\*\*\*

b. Documentation \*\*\*\*\*\*\*\*\*\*\*

c. Data \*\*\*\*\*\*\*\*\*

d. None of the above

Which of these benefits can be achieved when software is restructured?

Note: This has multiple answers

Select one or more:

a. Higher quality progams \*\*\*\*\*\*\*\*\*\*\*

b. Reduced maintenance effort \*\*\*\*\*\*\*\*\*\*

c. Software easier to test \*\*\*\*\*\*\*\*\*\*\*\*

d. None of the above

#### 

Code restructuring is a good example of software reengineering

True

False \*\*\*\*\*\*\*\*\*\*\*\*

#### 

Which of the following is not an example of data restructuring?

a. Data Analysis \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

b. Data name rationalization

c. Data name standardization

d. None of the above

Reengineering client/server systems begins with a thorough analysis of the business environment that encomapasses the existing computing system.

Select one:

True \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

False

#### 

#### 

The only time reengineering enters into work with a legacy system is when it components will be implemented as objects..

True

False \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#### 

#### 

The cost benefits derived from reengineering are realized largely due to decreased maintenance and support costs for the new software product.

True \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

False

#### 

#### 

#### 

Software quality might be defined as conformance to explicitly stated requirements and standards, nothing more and nothing less.

Select one:

True

False \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#### 

#### 

#### 

#### 

Software safety is a quality assurance activity that focuses on hazards that

a. Affect the reliability of a software component

b. May cause an entire system to fail \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

c. May result from user input errors

d. Prevent profitable marketing of final product

#### 

#### 

|  |  |
| --- | --- |
| Started on | Friday, 27 March 2015, 8:41 AM |
| State | Finished |
| Completed on | Friday, 27 March 2015, 9:12 AM |
| Time taken | 31 mins 49 secs |
| Marks | 38.83/50.00 |
| Grade | **77.67** out of 100.00 |

### Question 1

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

The ISO quality assurance standard that applies to software engineering is

Select one:

a. ISO 9000

b. ISO 9001 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

c. ISO 9002

d. ISO 9003

#### **Feedback**

The correct answer is: ISO 9001

### Question 2

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

Creation and refinement of use cases is an important part of secnario based scheduling.

Select one:

True\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

False

#### **Feedback**

The correct answer is 'True'.

### Question 3

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

By collecting software metrics and making use of existing software reliability models it is possible to develop meaningful guidelines for determining when software testing is done.

Select one:

True \*\*\*\*\*\*\*\*\*\*\*

False

#### **Feedback**

The correct answer is 'True'.

### Question 4

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Most software development projects are initiated to try to meet some business need

Select one:

True \*\*\*\*\*\*\*\*\*\*\*\*

False

#### **Feedback**

The correct answer is 'True'.

### Question 5

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

The criteria used to assess the quality of an architectural design should be based on

Note: This has multiple answers

Select one or more:

a. Accessibility

b. Control\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

c. Data\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

d. Implementation

#### **Feedback**

The correct answer is: Control, Data

### Question 6

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

DEsing patterns are not applicable to the design of object oriented software?

Select one:

True

False \*\*\*\*\*\*\*\*\*\*\*\*\*

#### **Feedback**

The correct answer is 'False'.

### Question 7

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

In colaborative requirements gathering the facilitator

Select one:

a. Arranges the meeting place

b. Connot be a customer

c. Controls a meeting \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

d. Must be an outsider

#### **Feedback**

The correct answer is: Controls a meeting

### Question 8

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Black box testing attempts to find errors in which of the following categories

Select one:

a. Incorrect or missing functions

b. Interface errors

c. performance errors

d. All of these \*\*\*\*\*\*\*\*\*\*\*\*\*\*

#### **Feedback**

The correct answer is: All of these

### Question 9

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

Requirements engineering is a generic process that does not vary from one software project to another.

Select one:

True\*\*\*\*\*\*\*\*\*\*\*\*

False

**Feedback**

The correct answer is 'True'.

### Question 10

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

The control specification represents the system behavior using UML sequence and state diagrams.

Select one:

True\*\*\*\*\*\*\*\*\*\*\*\*\*\*

False

#### **Feedback**

The correct answer is 'True'.

### Question 11

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

Why is it important to measure the process of software engineering and software it produces?

Select one:

a. It is really not necessary unless the project is extremely complex

b. To determine costs and allow a profit margin to be set

c. To determine whether a software group is improving or not \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

d. To make software engineering more like other engineering processes

#### **Feedback**

The correct answer is: To determine whether a software group is improving or not

### Question 12

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

Which of the following is not one of the five design class types?

Select one:

a. Business domain classes

b. Entity Classes \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

c. Process Classes

d. User Interface Classes

#### **Feedback**

The correct answer is: Entity Classes

### Question 13

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of the following need to be assessed during unit testing?

Note: This has multiple answers.

Select one or more:

a. Algorithmic performance

b. Code stability

c. Error handling \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

d. Execution paths \*\*\*\*\*\*\*\*\*\*\*\*\*\*

#### **Feedback**

The correct answer is: Error handling, Execution paths

### Question 14

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

The result of the requirements engineering task is an analysis model that defines which of the following problem domain?

Select one:

a. Information

b. Functional

c. Behavioral

d. All of the above \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#### **Feedback**

The correct answer is: All of the above

### Question 15

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of the following is the characteristics of testable software?

Select one:

a. Observability

b. Simplicity

c. Stability

d. All of these \*\*\*\*\*\*\*\*\*\*\*\*\*

#### **Feedback**

The correct answer is: All of these

### Question 16

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Software reliability problems can almost always be traced to

Note: This has multiple answers

Select one or more:

a. Errors in accuracy

b. Errors in design \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

c. Errors in implementation \*\*\*\*\*\*\*\*\*\*

d. Errors in operation

#### **Feedback**

The correct answer is: Errors in design, Errors in implementation

### Question 17

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Six sigma methodology defines three core steps.

Select one:

a. Analyze, Improve, Control

b. Analyze, design, verify

c. Define, measure, analyze \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

d. Define, measure, control

#### **Feedback**

The correct answer is: Define, measure, analyze

### Question 18

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of these are objectives of Team software process? (*mutiple answers)*

Select one or more:

a. Accelerate software process improvement

b. Allow better time management by highly trained professionals \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

c. Build self directed software teams \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

d. Show managers how to reduce costs and sustain quality

#### **Feedback**

The correct answer is: Allow better time management by highly trained professionals, Build self directed software teams

### Question 19

Partially correct

Mark 0.67 out of 1.00

Flag question

#### **Question text**

Which factors should be considered in choosing the organizational structure for a software team?

Note: this has multiple answers

Select one or more:

a. Degree of communication desired \*\*\*\*\*\*\*\*\*\*\*\*\*\*

b. Predicted size of resulting program \*\*\*\*\*\*\*\*\*\*\*\*

c. Rigidity of the delivery date\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

d. Size of the project budget

#### **Feedback**

The correct answer is: Degree of communication desired, Predicted size of resulting program, Rigidity of the delivery date

### Question 20

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of the following in not a characteristic common to all design methods?

Select one:

a. Configuration Management \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

b. Functional component representation

c. Quality assessment guidelines

d. Refinement heuristics

#### **Feedback**

The correct answer is: Configuration Management

### Question 21

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

The elements of software quality assurance consists of reviews, audits, and testing.

Select one:

True

False\*\*\*\*\*\*\*\*\*\*\*\*\*

#### **Feedback**

The correct answer is 'False'.

### Question 22

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Metrics can be used to indicate the relative strength of a software quality attribute.

Select one:

True \*\*\*\*\*\*\*\*\*\*\*\*\*\*

False

#### **Feedback**

The correct answer is 'True'.

### Question 23

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of the following is not an example of data restructuring?

Select one:

a. Data Analysis \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

b. Data name rationalization

c. Data name standardization

d. None of the above

#### **Feedback**

The correct answer is: Data Analysis

### Question 24

Partially correct

Mark 0.50 out of 1.00

Flag question

#### **Question text**

Top down integration testing has as its major advantage (s) that

Note: This has multiple answers

Select one or more:

a. low level modules never need testing

b. Major decision points are tested early \*\*\*\*\*\*\*\*\*\*\*\*\*

c. No drivers need to be written\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

d. No stubs need to be written

#### **Feedback**

The correct answer is: Major decision points are tested early, No drivers need to be written

### Question 25

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of these are critical practices for performance based project management?

Note: This has multiple answers

Select one or more:

a. Assessing product usability

b. Defect tracking against quality targets \*\*\*\*\*\*\*\*\*\*\*

c. Empirical cost estimation \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

d. Formal risk management \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#### **Feedback**

The correct answer is: Defect tracking against quality targets, Empirical cost estimation, Formal risk management

### Question 26

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

In agile process models the only deliverable work product is the working program.

Select one:

True

False \*\*\*\*\*\*\*\*\*\*\*\*

#### **Feedback**

The correct answer is 'False'.

### Question 27

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

The best reason for using Independent Software test teams is that

Select one:

a. Software developers do not need to do any testing

b. strangers will test the software mercilessly

c. testers do not get involved with the project until testing begins

d. The conflits of interest between developers and testers is reduced \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#### **Feedback**

The correct answer is: The conflits of interest between developers and testers is reduced

### Question 28

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of the following is not an example of a business process?

Select one:

a. Designing a new product

b. Hiring an employee

c. Purchasing services

d. Testing software \*\*\*\*\*\*\*\*\*\*\*\*\*\*

#### **Feedback**

The correct answer is: Testing software

### Question 29

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

The desirable characteristics that every good software design needs are

Select one:

a. Correctness

b. Understandability

c. Efficiency

d. Maintainability

e. All of the above Correct

#### **Feedback**

The correct answer is: All of the above

### Question 30

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Out of the following, which model is considered as the most general. and the others as specialized of it?

Select one:

a. Classical Waterfall Model Correct

b. Iterative Waterfall Model

c. Prototype model

d. Spiral Model

#### **Feedback**

The correct answer is: Classical Waterfall Model

### Question 31

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Coupling is a qualitative indication of the degree to which a module

Select one:

a. Can be written more compactly

b. Focuses on just one thing

c. Is able to complete its function in a timely manner

d. Is connected to other modules and the outside world Correct

#### **Feedback**

The correct answer is: Is connected to other modules and the outside world

### Question 32

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Planning ahead for software reuse reduces the cost and increases the value of the systems into which they are incorporated.

Select one:

True Correct

False

#### **Feedback**

The correct answer is 'True'.

### Question 33

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Software processes can be contructed out of pre-existing software patterns to best meet the needs of a software project.

Select one:

True Correct

False

#### **Feedback**

The correct answer is 'True'.

### Question 34

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Reengineering client/server systems begins with a thorough analysis of the business environment that encomapasses the existing computing system.

Select one:

True Correct

False

#### **Feedback**

The correct answer is 'True'.

### Question 35

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

In requirement validation the requirements model is reviewed to ensure its technical feasibility

Select one:

True

False Correct

#### **Feedback**

The correct answer is 'False'.

### Question 36

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which design model is equivalent to a set of detailed drawings for each room in a house?

Select one:

a. Architectural Design

b. Component level design Correct

c. Data design

d. Interface design

#### **Feedback**

The correct answer is: Component level design

### Question 37

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

With thorough testing it is possible to remove all defects from a program prior to delivery to the customer

Select one:

True

False Correct

#### **Feedback**

The correct answer is 'False'.

### Question 38

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

The cost benefits derived from reengineering are realized largely due to decreased maintenance and support costs for the new software product.

Select one:

True Correct

False

#### **Feedback**

The correct answer is 'True'.

### Question 39

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

Smoke testing might best be described as

Select one:

a. Bulletproofing shrink wrapped software

b. Rolling integration testing

c. Testing that hides implementation errors

d. Unit testing for small programs Incorrect

#### **Feedback**

The correct answer is: Rolling integration testing

### Question 40

Partially correct

Mark 0.67 out of 1.00

Flag question

#### **Question text**

Which of these are valid reasons for measuring software processes, products, and resources?

Note: this has multiple answers

Select one or more:

a. To characterize them

b. To evaluate them Correct

c. To price them Incorrect

d. To improve them Correct

#### **Feedback**

The correct answer is: To characterize them, To evaluate them, To improve them

### Question 41

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

Which of the following activities is not part of the software reengineering process model?

Select one:

a. Foward engineering

b. Invenroty analysis

c. Prototyping \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

d. Reverse Engineering

#### **Feedback**

The correct answer is: Prototyping

### Question 42

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

The architectural style encompasses which of the following elements?

Note: This has multiple answers.

Select one or more:

a. Constraints Correct

b. Set of components Correct

c. Semantic Models Correct

d. Syntactic Models

#### **Feedback**

The correct answer is: Constraints, Set of components, Semantic Models

### Question 43

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Software reengineering process model includes restructuring activities for which of the following work items?

Note: This has multiple answers

Select one or more:

a. Code Correct

b. Documentation Correct

c. Data Correct

d. None of the above

#### **Feedback**

The correct answer is: Code, Documentation, Data

### Question 44

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

The first step in project planning is to

Select one:

a. Determine the budget

b. Select a team organizational model

c. Determine the project constraints

d. Establish the objectives and scope Correct

#### **Feedback**

The correct answer is: Establish the objectives and scope

### Question 45

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

Software quality might be defined as conformance to explicitly stated requirements and standards, nothing more and nothing less.

Select one:

True Incorrect

False

#### **Feedback**

The correct answer is 'False'.

### Question 46

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

A stakeholder is anyone who will purchase the completed software system under development.

Select one:

True

False Correct

#### **Feedback**

The correct answer is 'False'.

### Question 47

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

The essesnce of software engineering practice might be describe as :

Undestand the problem, plan a solution, carry out the plan, and examine the result for accuracy.

Select one:

True Correct

False

#### **Feedback**

The correct answer is 'True'.

### Question 48

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of the following are areas of concern in the design model?

Note: This has multiple answers.

Select one or more:

a. Architecture Correct

b. Data Correct

c. Interfaces Correct

d. Project Scope Incorrect

#### **Feedback**

The correct answer is: Architecture, Data, Interfaces

### Question 49

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

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

Note: This has multiple answers

Select one or more:

a. Double the project team size

b. Request a large budget

c. Start on the right foot Correct

d. Track progress Correct

#### **Feedback**

The correct answer is: Start on the right foot, Track progress

### Question 50

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Software is a product and can be manufacturedd using the same technologies used for other engineering artifacts

Select one:

True

False Correct

#### **Feedback**

The correct answer is 'False'.

### Question 1

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

High coupling among modules makes it

Select one:

a. Difficult to understand and maintain the product

b. Difficult to implement and debug

c. Expensive to develop the product as the modules having high coupling cannot be developed independently

d. All of the above Correct

#### **Feedback**

The correct answer is: All of the above

### Question 2

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

In a classical waterfall model, which phase precedes the design phase?

Select one:

a. Coding and testing

b. Maintenance

c. Requirements analysis and specifications Correct

d. Feasibility Study

#### **Feedback**

The correct answer is: Requirements analysis and specifications

### Question 3

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Regression testing should be normal part of integration testing because as a new module is added to the system new.

Note: This has multiple answers

Select one or more:

a. Control logic is invoked Correct

b. Data flow paths are established Correct

c. Drivers require testing

d. None of these

#### **Feedback**

The correct answer is: Control logic is invoked, Data flow paths are established

### Question 4

Incorrect

Mark 0.00 out of 1.00

Remove flag

#### **Question text**

Select one:

a. Architectural design elements

b. Component Level design elements Incorrect

c. Data Design elements

d. Interface design elements

#### **Feedback**

The correct answer is: Data Design elements

### Question 5

Partially correct

Mark 0.50 out of 1.00

Flag question

#### **Question text**

Top down integration testing has as its major advantage (s) that

Note: This has multiple answers

Select one or more:

a. low level modules never need testing Incorrect

b. Major decision points are tested early Correct

c. No drivers need to be written

d. No stubs need to be written

#### **Feedback**

The correct answer is: Major decision points are tested early, No drivers need to be written

### Question 6

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

Process technology tools allow software organizations to compress schedules by skipping unimportant activities.

Select one:

True

False Incorrect

#### **Feedback**

The correct answer is 'True'.

### Question 7

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

In general software only succeeds if its behavious is consistent with the objectives of its designers.

Select one:

True

False Correct

#### **Feedback**

The correct answer is 'False'.

### Question 8

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Since modularity is an important desing goal it is not possible to have too many modules in a proposed design

Select one:

True

False Correct

#### **Feedback**

The correct answer is 'False'.

### Question 9

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Software deteriorates rather than wears out because

Select one:

a. Software suffers from exposure to hostile enviornments

b. Defects are more likely to arise after software has been used often

c. Mltiple change requests introduce errors in component interactions Correct

d. Software spare parts become harder to order

#### **Feedback**

The correct answer is: Mltiple change requests introduce errors in component interactions

### Question 10

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Software reliability problems can almost always be traced to

Note: This has multiple answers

Select one or more:

a. Errors in accuracy Incorrect

b. Errors in design Correct

c. Errors in implementation Correct

d. Errors in operation Incorrect

#### **Feedback**

The correct answer is: Errors in design, Errors in implementation

### Question 11

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of the following is not considered a stakeholder in the software process?

Select one:

a. Customers

b. End users

c. Project managers

d. Sales people Correct

#### **Feedback**

The correct answer is: Sales people

### Question 12

Partially correct

Mark 0.50 out of 1.00

Flag question

#### **Question text**

Which of these are standard for assessing software processes?*(This has multiples correct answers)*

Select one or more:

a. SEI

b. SPICE

c. ISO 9000 Incorrect

d. ISO 9001 Correct

#### **Feedback**

The correct answer is: SPICE, ISO 9001

### Question 13

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Most software development projects are initiated to try to meet some business need

Select one:

True Correct

False

#### **Feedback**

The correct answer is 'True'.

### Question 14

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of these software characteristics is not a factor contributing to project coordination difficulties?

Select one:

a. Interoperability

b. Performance Correct

c. Scale

d. Uncertainity

#### **Feedback**

The correct answer is: Performance

### Question 15

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

Which of the following activities is not part of the software reengineering process model?

Select one:

a. Foward engineering

b. Invenroty analysis

c. Prototyping \*\*\*\*\*\*\*\*\*\*\*\*

d. Reverse Engineering

#### **Feedback**

The correct answer is: Prototyping

### Question 16

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

A stakeholder is anyone who will purchase the completed software system under development.

Select one:

True

False Correct

#### **Feedback**

The correct answer is 'False'.

### Question 17

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of the following is the characteristics of testable software?

Select one:

a. Observability

b. Simplicity

c. Stability

d. All of these Correct

#### **Feedback**

The correct answer is: All of these

### Question 18

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Prototyping life cycle model is the most suitable one for undertaking a software development project susceptible to schedule slippage.

Select one:

True

False Correct

#### **Feedback**

The correct answer is 'False'.

### Question 19

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Software is a product and can be manufacturedd using the same technologies used for other engineering artifacts

Select one:

True

False Correct

#### **Feedback**

The correct answer is 'False'.

### Question 20

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

People who perform software quality assurance must look at the software from the customer's perspective.

Select one:

True Correct

False

#### **Feedback**

The correct answer is 'True'.

### Question 21

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

The ISO quality assurance standard that applies to software engineering is

Select one:

a. ISO 9000

b. ISO 9001 Correct

c. ISO 9002

d. ISO 9003

#### **Feedback**

The correct answer is: ISO 9001

### Question 22

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Spiral life cycle model is not suitable for products that are vulnerable to large number of risks.

Select one:

True

False Correct

#### **Feedback**

The correct answer is 'False'.

### Question 23

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

What is the normal order of activities in which traditional software testing is organized?

Note: This has multiple answers

Select one or more:

a. Integration testing Correct

b. System testing Correct

c. Unit testing Correct

d. Validation testing Correct

#### **Feedback**

The correct answer is: Integration testing, System testing, Unit testing, Validation testing

### Question 24

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

The control specification represents the system behavior using UML sequence and state diagrams.

Select one:

True

False Incorrect

#### **Feedback**

The correct answer is 'True'.

### Question 25

Partially correct

Mark 0.50 out of 1.00

Flag question

#### **Question text**

Which of the following need to be assessed during unit testing?

Note: This has multiple answers.

Select one or more:

a. Algorithmic performance Incorrect

b. Code stability Incorrect

c. Error handling Correct

d. Execution paths

#### **Feedback**

The correct answer is: Error handling, Execution paths

### Question 26

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

By collecting software metrics and making use of existing software reliability models it is possible to develop meaningful guidelines for determining when software testing is done.

Select one:

True Correct

False

#### **Feedback**

The correct answer is 'True'.

### Question 27

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

The best reason for using Independent Software test teams is that

Select one:

a. Software developers do not need to do any testing

b. strangers will test the software mercilessly

c. testers do not get involved with the project until testing begins

d. The conflits of interest between developers and testers is reduced Correct

#### **Feedback**

The correct answer is: The conflits of interest between developers and testers is reduced

### Question 28

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Software supportability is not concerned with either the provision of hardware or infrastructure.

Select one:

True

False Correct

#### **Feedback**

The correct answer is 'False'.

### Question 29

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Metrics can be used to indicate the relative strength of a software quality attribute.

Select one:

True Correct

False

#### **Feedback**

The correct answer is 'True'.

### Question 30

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of these are critical practices for performance based project management?

Note: This has multiple answers

Select one or more:

a. Assessing product usability Incorrect

b. Defect tracking against quality targets Correct

c. Empirical cost estimation Correct

d. Formal risk management Correct

#### **Feedback**

The correct answer is: Defect tracking against quality targets, Empirical cost estimation, Formal risk management

### Question 31

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

Why is it important to measure the process of software engineering and software it produces?

Select one:

a. It is really not necessary unless the project is extremely complex

b. To determine costs and allow a profit margin to be set Incorrect

c. To determine whether a software group is improving or not

d. To make software engineering more like other engineering processes

#### **Feedback**

The correct answer is: To determine whether a software group is improving or not

### Question 32

Partially correct

Mark 0.67 out of 1.00

Flag question

#### **Question text**

The architectural style encompasses which of the following elements?

Note: This has multiple answers.

Select one or more:

a. Constraints Correct

b. Set of components Correct

c. Semantic Models

d. Syntactic Models

#### **Feedback**

The correct answer is: Constraints, Set of components, Semantic Models

### Question 33

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

UML activity diagram are useful in representing which analysis model elements?

Select one:

a. Behavioral elements

b. Class based elements

c. Flow based elements

d. Scenatio based elements. Correct

#### **Feedback**

The correct answer is: Scenatio based elements.

### Question 34

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Reengineering client/server systems begins with a thorough analysis of the business environment that encomapasses the existing computing system.

Select one:

True Correct

False

#### **Feedback**

The correct answer is 'True'.

### Question 35

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

Which of the following is not an example of infrastructure components that may need to be integrated into the software acrhitecture?

Select one:

a. Communication Component Incorrect

b. Database components

c. Interface components

d. Memory management components

#### **Feedback**

The correct answer is: Interface components

### Question 36

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

Effective software project management focuses on

Select one:

a. People, performance, payoff, product

b. People, product, performance, process Incorrect

c. People, product, process, project

d. People, process, payoff, product

#### **Feedback**

The correct answer is: People, product, process, project

### Question 37

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Product and process decomposition occurs simultaneosly as the project plan evolves

Select one:

True Correct

False

#### **Feedback**

The correct answer is 'True'.

### Question 38

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

The UML sequence diagram show the order in which system events are processed.

Select one:

True Incorrect

False

#### **Feedback**

The correct answer is 'False'.

### Question 39

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of the follwoing problems can be considered to be contributing to the present software crisis?

*(This has multiple answers)*

Select one or more:

a. Large problem Size Correct

b. Lack of rapid progress of software engineering Correct

c. Lack of intelligent engineering Incorrect

d. Shortage of skilled manpower Correct

#### **Feedback**

The correct answer is: Large problem Size, Lack of rapid progress of software engineering, Shortage of skilled manpower

### Question 40

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

In colaborative requirements gathering the facilitator

Select one:

a. Arranges the meeting place

b. Connot be a customer

c. Controls a meeting Correct

d. Must be an outsider

#### **Feedback**

The correct answer is: Controls a meeting

### Question 41

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

Black box testing attempts to find errors in which of the following categories

Select one:

a. Incorrect or missing functions

b. Interface errors

c. performance errors Incorrect

d. All of these

#### **Feedback**

The correct answer is: All of these

### Question 42

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

The first step in project planning is to

Select one:

a. Determine the budget

b. Select a team organizational model

c. Determine the project constraints

d. Establish the objectives and scope Correct

#### **Feedback**

The correct answer is: Establish the objectives and scope

### Question 43

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Among all the phases of the softwaer development lifecycle, which phase consumes the maximum effort?

Select one:

a. Design

b. Maintenance Correct

c. Testing

d. Coding

#### **Feedback**

The correct answer is: Maintenance

### Question 44

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of the following in not a characteristic common to all design methods?

Select one:

a. Configuration Management Correct

b. Functional component representation

c. Quality assessment guidelines

d. Refinement heuristics

#### **Feedback**

The correct answer is: Configuration Management

### Question 45

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of the following are recongnized process flow types? *(This has multiples correct answers)*

Select one or more:

a. Concurrent Process Flow Correct

b. Iterative Process Flow Incorrect

c. Linear Process Flow Correct

d. Spiral Process Flow Incorrect

#### **Feedback**

The correct answer is: Concurrent Process Flow, Linear Process Flow

### Question 46

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of these benefits can be achieved when software is restructured?

Note: This has multiple answers

Select one or more:

a. Higher quality progams Correct

b. Reduced maintenance effort Correct

c. Software easier to test Correct

d. None of the above

#### **Feedback**

The correct answer is: Higher quality progams, Reduced maintenance effort, Software easier to test

### Question 47

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Evolutionary life cycle model is ideally suited for development of very small software products typically requiring a few months of development effort.

Select one:

True

False Correct

#### **Feedback**

The correct answer is 'False'.

### Question 48

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

Which of the following is NOT an element of a requirement model?

Select one:

a. Behavioral elements

b. Class based elements

c. Data elements

d. Scenatio based elements. Incorrect

#### **Feedback**

The correct answer is: Data elements

### Question 49

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

In requirement validation the requirements model is reviewed to ensure its technical feasibility

Select one:

True

False Correct

#### **Feedback**

The correct answer is 'False'.

### Question 50

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Software safety is a quality assurance activity that focuses on hazards that

Select one:

a. Affect the reliability of a software component

b. May cause an entire system to fail Correct

c. May result from user input errors

d. Prevent profitable marketing of final product

#### **Feedback**

The correct answer is: May cause an entire system to fail

### Question 1

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

High coupling among modules makes it

Select one:

a. Difficult to understand and maintain the product

b. Difficult to implement and debug

c. Expensive to develop the product as the modules having high coupling cannot be developed independently

d. All of the above Correct

#### **Feedback**

The correct answer is: All of the above

### Question 2

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

In a classical waterfall model, which phase precedes the design phase?

Select one:

a. Coding and testing

b. Maintenance

c. Requirements analysis and specifications Correct

d. Feasibility Study

#### **Feedback**

The correct answer is: Requirements analysis and specifications

### Question 3

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Regression testing should be normal part of integration testing because as a new module is added to the system new.

Note: This has multiple answers

Select one or more:

a. Control logic is invoked Correct

b. Data flow paths are established Correct

c. Drivers require testing

d. None of these

#### **Feedback**

The correct answer is: Control logic is invoked, Data flow paths are established

### Question 4

Incorrect

Mark 0.00 out of 1.00

Remove flag

#### **Question text**

Select one:

a. Architectural design elements

b. Component Level design elements Incorrect

c. Data Design elements

d. Interface design elements

#### **Feedback**

The correct answer is: Data Design elements

### Question 5

Partially correct

Mark 0.50 out of 1.00

Flag question

#### **Question text**

Top down integration testing has as its major advantage (s) that

Note: This has multiple answers

Select one or more:

a. low level modules never need testing Incorrect

b. Major decision points are tested early Correct

c. No drivers need to be written

d. No stubs need to be written

#### **Feedback**

The correct answer is: Major decision points are tested early, No drivers need to be written

### Question 6

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

Process technology tools allow software organizations to compress schedules by skipping unimportant activities.

Select one:

True

False Incorrect

#### **Feedback**

The correct answer is 'True'.

### Question 7

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

In general software only succeeds if its behavious is consistent with the objectives of its designers.

Select one:

True

False Correct

#### **Feedback**

The correct answer is 'False'.

### Question 8

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Since modularity is an important desing goal it is not possible to have too many modules in a proposed design

Select one:

True

False Correct

#### **Feedback**

The correct answer is 'False'.

### Question 9

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Software deteriorates rather than wears out because

Select one:

a. Software suffers from exposure to hostile enviornments

b. Defects are more likely to arise after software has been used often

c. Mltiple change requests introduce errors in component interactions Correct

d. Software spare parts become harder to order

#### **Feedback**

The correct answer is: Mltiple change requests introduce errors in component interactions

### Question 10

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Software reliability problems can almost always be traced to

Note: This has multiple answers

Select one or more:

a. Errors in accuracy Incorrect

b. Errors in design Correct

c. Errors in implementation Correct

d. Errors in operation Incorrect

#### **Feedback**

The correct answer is: Errors in design, Errors in implementation

### Question 11

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of the following is not considered a stakeholder in the software process?

Select one:

a. Customers

b. End users

c. Project managers

d. Sales people Correct

#### **Feedback**

The correct answer is: Sales people

### Question 12

Partially correct

Mark 0.50 out of 1.00

Flag question

#### **Question text**

Which of these are standard for assessing software processes?*(This has multiples correct answers)*

Select one or more:

a. SEI

b. SPICE

c. ISO 9000 Incorrect

d. ISO 9001 Correct

#### **Feedback**

The correct answer is: SPICE, ISO 9001

### Question 13

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Most software development projects are initiated to try to meet some business need

Select one:

True Correct

False

#### **Feedback**

The correct answer is 'True'.

### Question 14

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of these software characteristics is not a factor contributing to project coordination difficulties?

Select one:

a. Interoperability

b. Performance Correct

c. Scale

d. Uncertainity

#### **Feedback**

The correct answer is: Performance

### Question 15

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

Which of the following activities is not part of the software reengineering process model?

Select one:

a. Foward engineering

b. Invenroty analysis

c. Prototyping \*\*\*\*\*\*\*\*\*\*\*\*

d. Reverse Engineering

#### **Feedback**

The correct answer is: Prototyping

### Question 16

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

A stakeholder is anyone who will purchase the completed software system under development.

Select one:

True

False Correct

#### **Feedback**

The correct answer is 'False'.

### Question 17

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of the following is the characteristics of testable software?

Select one:

a. Observability

b. Simplicity

c. Stability

d. All of these Correct

#### **Feedback**

The correct answer is: All of these

### Question 18

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Prototyping life cycle model is the most suitable one for undertaking a software development project susceptible to schedule slippage.

Select one:

True

False Correct

#### **Feedback**

The correct answer is 'False'.

### Question 19

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Software is a product and can be manufacturedd using the same technologies used for other engineering artifacts

Select one:

True

False Correct

#### **Feedback**

The correct answer is 'False'.

### Question 20

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

People who perform software quality assurance must look at the software from the customer's perspective.

Select one:

True Correct

False

#### **Feedback**

The correct answer is 'True'.

### Question 21

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

The ISO quality assurance standard that applies to software engineering is

Select one:

a. ISO 9000

b. ISO 9001 Correct

c. ISO 9002

d. ISO 9003

#### **Feedback**

The correct answer is: ISO 9001

### Question 22

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Spiral life cycle model is not suitable for products that are vulnerable to large number of risks.

Select one:

True

False Correct

#### **Feedback**

The correct answer is 'False'.

### Question 23

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

What is the normal order of activities in which traditional software testing is organized?

Note: This has multiple answers

Select one or more:

a. Integration testing Correct

b. System testing Correct

c. Unit testing Correct

d. Validation testing Correct

#### **Feedback**

The correct answer is: Integration testing, System testing, Unit testing, Validation testing

### Question 24

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

The control specification represents the system behavior using UML sequence and state diagrams.

Select one:

True

False Incorrect

#### **Feedback**

The correct answer is 'True'.

### Question 25

Partially correct

Mark 0.50 out of 1.00

Flag question

#### **Question text**

Which of the following need to be assessed during unit testing?

Note: This has multiple answers.

Select one or more:

a. Algorithmic performance Incorrect

b. Code stability Incorrect

c. Error handling Correct

d. Execution paths

#### **Feedback**

The correct answer is: Error handling, Execution paths

### Question 26

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

By collecting software metrics and making use of existing software reliability models it is possible to develop meaningful guidelines for determining when software testing is done.

Select one:

True Correct

False

#### **Feedback**

The correct answer is 'True'.

### Question 27

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

The best reason for using Independent Software test teams is that

Select one:

a. Software developers do not need to do any testing

b. strangers will test the software mercilessly

c. testers do not get involved with the project until testing begins

d. The conflits of interest between developers and testers is reduced Correct

#### **Feedback**

The correct answer is: The conflits of interest between developers and testers is reduced

### Question 28

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Software supportability is not concerned with either the provision of hardware or infrastructure.

Select one:

True

False Correct

#### **Feedback**

The correct answer is 'False'.

### Question 29

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Metrics can be used to indicate the relative strength of a software quality attribute.

Select one:

True Correct

False

#### **Feedback**

The correct answer is 'True'.

### Question 30

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of these are critical practices for performance based project management?

Note: This has multiple answers

Select one or more:

a. Assessing product usability Incorrect

b. Defect tracking against quality targets Correct

c. Empirical cost estimation Correct

d. Formal risk management Correct

#### **Feedback**

The correct answer is: Defect tracking against quality targets, Empirical cost estimation, Formal risk management

### Question 31

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

Why is it important to measure the process of software engineering and software it produces?

Select one:

a. It is really not necessary unless the project is extremely complex

b. To determine costs and allow a profit margin to be set Incorrect

c. To determine whether a software group is improving or not

d. To make software engineering more like other engineering processes

#### **Feedback**

The correct answer is: To determine whether a software group is improving or not

### Question 32

Partially correct

Mark 0.67 out of 1.00

Flag question

#### **Question text**

The architectural style encompasses which of the following elements?

Note: This has multiple answers.

Select one or more:

a. Constraints Correct

b. Set of components Correct

c. Semantic Models

d. Syntactic Models

#### **Feedback**

The correct answer is: Constraints, Set of components, Semantic Models

### Question 33

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

UML activity diagram are useful in representing which analysis model elements?

Select one:

a. Behavioral elements

b. Class based elements

c. Flow based elements

d. Scenatio based elements. Correct

#### **Feedback**

The correct answer is: Scenatio based elements.

### Question 34

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Reengineering client/server systems begins with a thorough analysis of the business environment that encomapasses the existing computing system.

Select one:

True Correct

False

#### **Feedback**

The correct answer is 'True'.

### Question 35

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

Which of the following is not an example of infrastructure components that may need to be integrated into the software acrhitecture?

Select one:

a. Communication Component Incorrect

b. Database components

c. Interface components

d. Memory management components

#### **Feedback**

The correct answer is: Interface components

### Question 36

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

Effective software project management focuses on

Select one:

a. People, performance, payoff, product

b. People, product, performance, process Incorrect

c. People, product, process, project

d. People, process, payoff, product

#### **Feedback**

The correct answer is: People, product, process, project

### Question 37

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Product and process decomposition occurs simultaneosly as the project plan evolves

Select one:

True Correct

False

#### **Feedback**

The correct answer is 'True'.

### Question 38

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

The UML sequence diagram show the order in which system events are processed.

Select one:

True Incorrect

False

#### **Feedback**

The correct answer is 'False'.

### Question 39

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of the follwoing problems can be considered to be contributing to the present software crisis?

*(This has multiple answers)*

Select one or more:

a. Large problem Size Correct

b. Lack of rapid progress of software engineering Correct

c. Lack of intelligent engineering Incorrect

d. Shortage of skilled manpower Correct

#### **Feedback**

The correct answer is: Large problem Size, Lack of rapid progress of software engineering, Shortage of skilled manpower

### Question 40

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

In colaborative requirements gathering the facilitator

Select one:

a. Arranges the meeting place

b. Connot be a customer

c. Controls a meeting Correct

d. Must be an outsider

#### **Feedback**

The correct answer is: Controls a meeting

### Question 41

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

Black box testing attempts to find errors in which of the following categories

Select one:

a. Incorrect or missing functions

b. Interface errors

c. performance errors Incorrect

d. All of these

#### **Feedback**

The correct answer is: All of these

### Question 42

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

The first step in project planning is to

Select one:

a. Determine the budget

b. Select a team organizational model

c. Determine the project constraints

d. Establish the objectives and scope Correct

#### **Feedback**

The correct answer is: Establish the objectives and scope

### Question 43

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Among all the phases of the softwaer development lifecycle, which phase consumes the maximum effort?

Select one:

a. Design

b. Maintenance Correct

c. Testing

d. Coding

#### **Feedback**

The correct answer is: Maintenance

### Question 44

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of the following in not a characteristic common to all design methods?

Select one:

a. Configuration Management Correct

b. Functional component representation

c. Quality assessment guidelines

d. Refinement heuristics

#### **Feedback**

The correct answer is: Configuration Management

### Question 45

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of the following are recongnized process flow types? *(This has multiples correct answers)*

Select one or more:

a. Concurrent Process Flow Correct

b. Iterative Process Flow Incorrect

c. Linear Process Flow Correct

d. Spiral Process Flow Incorrect

#### **Feedback**

The correct answer is: Concurrent Process Flow, Linear Process Flow

### Question 46

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of these benefits can be achieved when software is restructured?

Note: This has multiple answers

Select one or more:

a. Higher quality progams Correct

b. Reduced maintenance effort Correct

c. Software easier to test Correct

d. None of the above

#### **Feedback**

The correct answer is: Higher quality progams, Reduced maintenance effort, Software easier to test

### Question 47

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Evolutionary life cycle model is ideally suited for development of very small software products typically requiring a few months of development effort.

Select one:

True

False Correct

#### **Feedback**

The correct answer is 'False'.

### Question 48

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

Which of the following is NOT an element of a requirement model?

Select one:

a. Behavioral elements

b. Class based elements

c. Data elements

d. Scenatio based elements. Incorrect

#### **Feedback**

The correct answer is: Data elements

### Question 49

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

In requirement validation the requirements model is reviewed to ensure its technical feasibility

Select one:

True

False Correct

#### **Feedback**

The correct answer is 'False'.

### Question 50

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Software safety is a quality assurance activity that focuses on hazards that

Select one:

a. Affect the reliability of a software component

b. May cause an entire system to fail Correct

c. May result from user input errors

d. Prevent profitable marketing of final product

#### **Feedback**

The correct answer is: May cause an entire system to fail

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Page path

* [Home](http://my.uopeople.edu/) /
* [My courses](http://my.uopeople.edu/my/) /
* [Current Term (Term 3, 2014-2015)](http://my.uopeople.edu/course/index.php?categoryid=38) /
* [CS 2401 - T3 2014-2015](http://my.uopeople.edu/course/view.php?id=860) /
* Final Exam (Days 1 - 4) /
* [Review Quiz](http://my.uopeople.edu/mod/quiz/view.php?id=57373)

|  |  |
| --- | --- |
| Started on | Friday, 27 March 2015, 4:16 PM |
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| Completed on | Friday, 27 March 2015, 4:30 PM |
| Time taken | 14 mins 11 secs |
| Marks | 43.50/50.00 |
| Grade | **87.00** out of 100.00 |

### Question 1

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of these are standard for assessing software processes?*(This has multiples correct answers)*

Select one or more:

a. SEI

b. SPICE Correct

c. ISO 9000

d. ISO 9001 Correct

#### **Feedback**

The correct answer is: SPICE, ISO 9001

### Question 2

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Software supportability is not concerned with either the provision of hardware or infrastructure.

Select one:

True

False Correct

#### **Feedback**

The correct answer is 'False'.

### Question 3

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

DEvelopers and customers create use cases to help the softare team understand how different classes of end users will use functions.

Select one:

True Correct

False

#### **Feedback**

The correct answer is 'True'.

### Question 4

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of the following is not an example of a business process?

Select one:

a. Designing a new product

b. Hiring an employee

c. Purchasing services

d. Testing software Correct

#### **Feedback**

The correct answer is: Testing software

### Question 5

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Software safety is a quality assurance activity that focuses on hazards that

Select one:

a. Affect the reliability of a software component

b. May cause an entire system to fail Correct

c. May result from user input errors

d. Prevent profitable marketing of final product

#### **Feedback**

The correct answer is: May cause an entire system to fail

### Question 6

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Six sigma methodology defines three core steps.

Select one:

a. Analyze, Improve, Control

b. Analyze, design, verify

c. Define, measure, analyze Correct

d. Define, measure, control

#### **Feedback**

The correct answer is: Define, measure, analyze

### Question 7

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Requirements engineering is a generic process that does not vary from one software project to another.

Select one:

True Correct

False

#### **Feedback**

The correct answer is 'True'.

### Question 8

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

The essesnce of software engineering practice might be describe as :

Undestand the problem, plan a solution, carry out the plan, and examine the result for accuracy.

Select one:

True Correct

False

#### **Feedback**

The correct answer is 'True'.

### Question 9

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

A stakeholder is anyone who will purchase the completed software system under development.

Select one:

True

False Correct

#### **Feedback**

The correct answer is 'False'.

### Question 10

Correct

Mark 1.00 out of 1.00

Remove flag

#### **Question text**

Which of the following is not one of the five design class types?

Select one:

a. Business domain classes

b. Entity Classes Correct

c. Process Classes

d. User Interface Classes

#### **Feedback**

The correct answer is: Entity Classes

### Question 11

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

The ISO quality assurance standard that applies to software engineering is

Select one:

a. ISO 9000

b. ISO 9001 Correct

c. ISO 9002

d. ISO 9003

#### **Feedback**

The correct answer is: ISO 9001

### Question 12

Incorrect

Mark 0.00 out of 1.00

Remove flag

#### **Question text**

Which of the following activities is not part of the software reengineering process model?

Select one:

a. Foward engineering

b. Invenroty analysis

c. Prototyping

d. Reverse Engineering Incorrect

#### **Feedback**

The correct answer is: Prototyping

### Question 13

Incorrect

Mark 0.00 out of 1.00

Remove flag

#### **Question text**

Boundary value analysis can only be used to do white box testing

Select one:

True Incorrect

False

#### **Feedback**

The correct answer is 'False'.

### Question 14

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Since modularity is an important desing goal it is not possible to have too many modules in a proposed design

Select one:

True

False Correct

#### **Feedback**

The correct answer is 'False'.

### Question 15

Partially correct

Mark 0.50 out of 1.00

Remove flag

#### **Question text**

What type of errors are missed by black box testing and can be uncovered by white box testing?

Note:This has multiple answers

Select one or more:

a. Behavioral errors

b. Logic errors Correct

c. Performance errors

d. Typographical errors

#### **Feedback**

The correct answer is: Logic errors, Typographical errors

### Question 16

Incorrect

Mark 0.00 out of 1.00

Remove flag

#### **Question text**

Information hiding makes program maintenance easier by hiding data and procedure from unaffected parts of the program

Select one:

True

False Incorrect

#### **Feedback**

The correct answer is 'True'.

### Question 17

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

In agile process models the only deliverable work product is the working program.

Select one:

True

False Correct

#### **Feedback**

The correct answer is 'False'.

### Question 18

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

In requirement validation the requirements model is reviewed to ensure its technical feasibility

Select one:

True

False Correct

#### **Feedback**

The correct answer is 'False'.

### Question 19

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

The desirable characteristics that every good software design needs are

Select one:

a. Correctness

b. Understandability

c. Efficiency

d. Maintainability

e. All of the above Correct

#### **Feedback**

The correct answer is: All of the above

### Question 20

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of these is not one of the phase names defined by the unified process model for software ddevelopment?

Select one:

a. Inception

b. Elaboration

c. Construction Correct

d. Validation

#### **Feedback**

The correct answer is: Construction

### Question 21

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

Software quality might be defined as conformance to explicitly stated requirements and standards, nothing more and nothing less.

Select one:

True Incorrect

False

#### **Feedback**

The correct answer is 'False'.

### Question 22

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Units and stubs are not needed for unit testing because the modules are tested independently of one another

Select one:

True

False Correct

#### **Feedback**

The correct answer is 'False'.

### Question 23

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

A module is said to have logical cohesion , if

Select one:

a. It performs a set of tasks that relate to each other very loosely

b. All the functions of the module are executed within the same time span

c. All elements of the module perform similar operations, e.g. error handling, data input, data otput etc. Correct

d. None of the above

#### **Feedback**

The correct answer is: All elements of the module perform similar operations, e.g. error handling, data input, data otput etc.

### Question 24

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

The best project team organizational model to use when tackling extremely complex problems is the

Select one:

a. Closed paradigm

b. Open paradigm Correct

c. Random paradigm

d. Synchronous paradigm

#### **Feedback**

The correct answer is: Open paradigm

### Question 25

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of the follwoing is not one of the context free questions that would be used during project inception?

Select one:

a. What will be the economic benefit from a good solution?

b. Who is behind the request for work?

c. Who will pay for the work? Correct

d. Who will use the solution?

#### **Feedback**

The correct answer is: Who will pay for the work?

### Question 26

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of the following is the characteristics of testable software?

Select one:

a. Observability

b. Simplicity

c. Stability

d. All of these Correct

#### **Feedback**

The correct answer is: All of these

### Question 27

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Software reengineering process model includes restructuring activities for which of the following work items?

Note: This has multiple answers

Select one or more:

a. Code Correct

b. Documentation Correct

c. Data Correct

d. None of the above

#### **Feedback**

The correct answer is: Code, Documentation, Data

### Question 28

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

With thorough testing it is possible to remove all defects from a program prior to delivery to the customer

Select one:

True

False Correct

#### **Feedback**

The correct answer is 'False'.

### Question 29

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Coupling is a qualitative indication of the degree to which a module

Select one:

a. Can be written more compactly

b. Focuses on just one thing

c. Is able to complete its function in a timely manner

d. Is connected to other modules and the outside world Correct

#### **Feedback**

The correct answer is: Is connected to other modules and the outside world

### Question 30

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Planning ahead for software reuse reduces the cost and increases the value of the systems into which they are incorporated.

Select one:

True Correct

False

#### **Feedback**

The correct answer is 'True'.

### Question 31

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Metrics can be used to indicate the relative strength of a software quality attribute.

Select one:

True Correct

False

#### **Feedback**

The correct answer is 'True'.

### Question 32

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of the follwoing problems can be considered to be contributing to the present software crisis?

*(This has multiple answers)*

Select one or more:

a. Large problem Size Correct

b. Lack of rapid progress of software engineering Correct

c. Lack of intelligent engineering Incorrect

d. Shortage of skilled manpower Correct

#### **Feedback**

The correct answer is: Large problem Size, Lack of rapid progress of software engineering, Shortage of skilled manpower

### Question 33

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

In a classical waterfall model, which phase precedes the design phase?

Select one:

a. Coding and testing

b. Maintenance

c. Requirements analysis and specifications Correct

d. Feasibility Study

#### **Feedback**

The correct answer is: Requirements analysis and specifications

### Question 34

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

Which of the following is not an example of infrastructure components that may need to be integrated into the software acrhitecture?

Select one:

a. Communication Component Incorrect

b. Database components

c. Interface components

d. Memory management components

#### **Feedback**

The correct answer is: Interface components

### Question 35

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Among all the phases of the softwaer development lifecycle, which phase consumes the maximum effort?

Select one:

a. Design

b. Maintenance Correct

c. Testing

d. Coding

#### **Feedback**

The correct answer is: Maintenance

### Question 36

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of the following is not an example of data restructuring?

Select one:

a. Data Analysis Correct

b. Data name rationalization

c. Data name standardization

d. None of the above

#### **Feedback**

The correct answer is: Data Analysis

### Question 37

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

How much effort is typically expended by a software organization on software maintenance?

Select one:

a. 20%

b. 40%

c. 60% Correct

d. 80%

#### **Feedback**

The correct answer is: 60%

### Question 38

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Software is a product and can be manufacturedd using the same technologies used for other engineering artifacts

Select one:

True

False Correct

#### **Feedback**

The correct answer is 'False'.

### Question 39

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which factors should be considered in choosing the organizational structure for a software team?

Note: this has multiple answers

Select one or more:

a. Degree of communication desired Correct

b. Predicted size of resulting program Correct

c. Rigidity of the delivery date Correct

d. Size of the project budget

#### **Feedback**

The correct answer is: Degree of communication desired, Predicted size of resulting program, Rigidity of the delivery date

### Question 40

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Product and process decomposition occurs simultaneosly as the project plan evolves

Select one:

True Correct

False

#### **Feedback**

The correct answer is 'True'.

### Question 41

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Evolutionary software models are

Select one:

a. Interactive in nature

b. Can easily accomodate product requirements chages

c. Do not generally produce throwaway systems

d. All of the above Correct

#### **Feedback**

The correct answer is: All of the above

### Question 42

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

By collecting software metrics and making use of existing software reliability models it is possible to develop meaningful guidelines for determining when software testing is done.

Select one:

True Correct

False

#### **Feedback**

The correct answer is 'True'.

### Question 43

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of these are objectives of Team software process? (*mutiple answers)*

Select one or more:

a. Accelerate software process improvement Incorrect

b. Allow better time management by highly trained professionals Correct

c. Build self directed software teams Correct

d. Show managers how to reduce costs and sustain quality

#### **Feedback**

The correct answer is: Allow better time management by highly trained professionals, Build self directed software teams

### Question 44

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Attempts to apply mathematical proof to demonstrate that a program conforms to its specifications are doomed to failure.

Select one:

True

False Correct

#### **Feedback**

The correct answer is 'False'.

### Question 45

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

The cost benefits derived from reengineering are realized largely due to decreased maintenance and support costs for the new software product.

Select one:

True Correct

False

#### **Feedback**

The correct answer is 'True'.

### Question 46

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of the following is not considered a stakeholder in the software process?

Select one:

a. Customers

b. End users

c. Project managers

d. Sales people Correct

#### **Feedback**

The correct answer is: Sales people

### Question 47

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

The first step in project planning is to

Select one:

a. Determine the budget

b. Select a team organizational model

c. Determine the project constraints

d. Establish the objectives and scope Correct

#### **Feedback**

The correct answer is: Establish the objectives and scope

### Question 48

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

Black box testing attempts to find errors in which of the following categories

Select one:

a. Incorrect or missing functions

b. Interface errors

c. performance errors Incorrect

d. All of these

#### **Feedback**

The correct answer is: All of these

### Question 49

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of these are valid reasons for measuring software processes, products, and resources?

Note: this has multiple answers

Select one or more:

a. To characterize them Correct

b. To evaluate them Correct

c. To price them

d. To improve them Correct

#### **Feedback**

The correct answer is: To characterize them, To evaluate them, To improve them

### Question 50

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

UML activity diagram are useful in representing which analysis model elements?

Select one:

a. Behavioral elements

b. Class based elements

c. Flow based elements

d. Scenatio based elements. Correct

#### **Feedback**

The correct answer is: Scenatio based elements.

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**Angela Head Shot**Angela Labianca-Campbell

[Question 1 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#) [Question 2 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q2) [Question 3 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q3) [Question 4 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q4) [Question 5 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q5) [Question 6 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q6) [Question 7 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q7) [Question 8 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q8) [Question 9 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q9) [Question 10 This page Flagged](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q10)[Question 11 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q11) [Question 12 This page Flagged](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q12)[Question 13 This page Flagged](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q13)[Question 14 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q14) [Question 15 This page Flagged](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q15)[Question 16 This page Flagged](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q16)[Question 17 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q17) [Question 18 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q18) [Question 19 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q19) [Question 20 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q20) [Question 21 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q21) [Question 22 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q22) [Question 23 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q23) [Question 24 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q24) [Question 25 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q25) [Question 26 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q26) [Question 27 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q27) [Question 28 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q28) [Question 29 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q29) [Question 30 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q30) [Question 31 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q31) [Question 32 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q32) [Question 33 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q33) [Question 34 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q34) [Question 35 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q35) [Question 36 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q36) [Question 37 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q37) [Question 38 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q38) [Question 39 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q39) [Question 40 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q40) [Question 41 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q41) [Question 42 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q42) [Question 43 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q43) [Question 44 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q44) [Question 45 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q45) [Question 46 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q46) [Question 47 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q47) [Question 48 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q48) [Question 49 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q49) [Question 50 This page](http://my.uopeople.edu/mod/quiz/review.php?attempt=246871#q50)

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* [CS 2401 - T3 2014-2015](http://my.uopeople.edu/course/view.php?id=860) /
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| Grade | **87.00** out of 100.00 |

### Question 1

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of these are standard for assessing software processes?*(This has multiples correct answers)*

Select one or more:

a. SEI

b. SPICE Correct

c. ISO 9000

d. ISO 9001 Correct

#### **Feedback**

The correct answer is: SPICE, ISO 9001

### Question 2

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Software supportability is not concerned with either the provision of hardware or infrastructure.

Select one:

True

False Correct

#### **Feedback**

The correct answer is 'False'.

### Question 3

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

DEvelopers and customers create use cases to help the softare team understand how different classes of end users will use functions.

Select one:

True Correct

False

#### **Feedback**

The correct answer is 'True'.

### Question 4

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of the following is not an example of a business process?

Select one:

a. Designing a new product

b. Hiring an employee

c. Purchasing services

d. Testing software Correct

#### **Feedback**

The correct answer is: Testing software

### Question 5

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Software safety is a quality assurance activity that focuses on hazards that

Select one:

a. Affect the reliability of a software component

b. May cause an entire system to fail Correct

c. May result from user input errors

d. Prevent profitable marketing of final product

#### **Feedback**

The correct answer is: May cause an entire system to fail

### Question 6

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Six sigma methodology defines three core steps.

Select one:

a. Analyze, Improve, Control

b. Analyze, design, verify

c. Define, measure, analyze Correct

d. Define, measure, control

#### **Feedback**

The correct answer is: Define, measure, analyze

### Question 7

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Requirements engineering is a generic process that does not vary from one software project to another.

Select one:

True Correct

False

#### **Feedback**

The correct answer is 'True'.

### Question 8

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

The essesnce of software engineering practice might be describe as :

Undestand the problem, plan a solution, carry out the plan, and examine the result for accuracy.

Select one:

True Correct

False

#### **Feedback**

The correct answer is 'True'.

### Question 9

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

A stakeholder is anyone who will purchase the completed software system under development.

Select one:

True

False Correct

#### **Feedback**

The correct answer is 'False'.

### Question 10

Correct

Mark 1.00 out of 1.00

Remove flag

#### **Question text**

Which of the following is not one of the five design class types?

Select one:

a. Business domain classes

b. Entity Classes Correct

c. Process Classes

d. User Interface Classes

#### **Feedback**

The correct answer is: Entity Classes

### Question 11

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

The ISO quality assurance standard that applies to software engineering is

Select one:

a. ISO 9000

b. ISO 9001 Correct

c. ISO 9002

d. ISO 9003

#### **Feedback**

The correct answer is: ISO 9001

### Question 12

Incorrect

Mark 0.00 out of 1.00

Remove flag

#### **Question text**

Which of the following activities is not part of the software reengineering process model?

Select one:

a. Foward engineering

b. Invenroty analysis

c. Prototyping

d. Reverse Engineering Incorrect

#### **Feedback**

The correct answer is: Prototyping

### Question 13

Incorrect

Mark 0.00 out of 1.00

Remove flag

#### **Question text**

Boundary value analysis can only be used to do white box testing

Select one:

True Incorrect

False

#### **Feedback**

The correct answer is 'False'.

### Question 14

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Since modularity is an important desing goal it is not possible to have too many modules in a proposed design

Select one:

True

False Correct

#### **Feedback**

The correct answer is 'False'.

### Question 15

Partially correct

Mark 0.50 out of 1.00

Remove flag

#### **Question text**

What type of errors are missed by black box testing and can be uncovered by white box testing?

Note:This has multiple answers

Select one or more:

a. Behavioral errors

b. Logic errors Correct

c. Performance errors

d. Typographical errors

#### **Feedback**

The correct answer is: Logic errors, Typographical errors

### Question 16

Incorrect

Mark 0.00 out of 1.00

Remove flag

#### **Question text**

Information hiding makes program maintenance easier by hiding data and procedure from unaffected parts of the program

Select one:

True

False Incorrect

#### **Feedback**

The correct answer is 'True'.

### Question 17

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

In agile process models the only deliverable work product is the working program.

Select one:

True

False Correct

#### **Feedback**

The correct answer is 'False'.

### Question 18

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

In requirement validation the requirements model is reviewed to ensure its technical feasibility

Select one:

True

False Correct

#### **Feedback**

The correct answer is 'False'.

### Question 19

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

The desirable characteristics that every good software design needs are

Select one:

a. Correctness

b. Understandability

c. Efficiency

d. Maintainability

e. All of the above Correct

#### **Feedback**

The correct answer is: All of the above

### Question 20

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of these is not one of the phase names defined by the unified process model for software ddevelopment?

Select one:

a. Inception

b. Elaboration

c. Construction Correct

d. Validation

#### **Feedback**

The correct answer is: Construction

### Question 21

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

Software quality might be defined as conformance to explicitly stated requirements and standards, nothing more and nothing less.

Select one:

True Incorrect

False

#### **Feedback**

The correct answer is 'False'.

### Question 22

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Units and stubs are not needed for unit testing because the modules are tested independently of one another

Select one:

True

False Correct

#### **Feedback**

The correct answer is 'False'.

### Question 23

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

A module is said to have logical cohesion , if

Select one:

a. It performs a set of tasks that relate to each other very loosely

b. All the functions of the module are executed within the same time span

c. All elements of the module perform similar operations, e.g. error handling, data input, data otput etc. Correct

d. None of the above

#### **Feedback**

The correct answer is: All elements of the module perform similar operations, e.g. error handling, data input, data otput etc.

### Question 24

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

The best project team organizational model to use when tackling extremely complex problems is the

Select one:

a. Closed paradigm

b. Open paradigm Correct

c. Random paradigm

d. Synchronous paradigm

#### **Feedback**

The correct answer is: Open paradigm

### Question 25

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of the follwoing is not one of the context free questions that would be used during project inception?

Select one:

a. What will be the economic benefit from a good solution?

b. Who is behind the request for work?

c. Who will pay for the work? Correct

d. Who will use the solution?

#### **Feedback**

The correct answer is: Who will pay for the work?

### Question 26

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of the following is the characteristics of testable software?

Select one:

a. Observability

b. Simplicity

c. Stability

d. All of these Correct

#### **Feedback**

The correct answer is: All of these

### Question 27

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Software reengineering process model includes restructuring activities for which of the following work items?

Note: This has multiple answers

Select one or more:

a. Code Correct

b. Documentation Correct

c. Data Correct

d. None of the above

#### **Feedback**

The correct answer is: Code, Documentation, Data

### Question 28

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

With thorough testing it is possible to remove all defects from a program prior to delivery to the customer

Select one:

True

False Correct

#### **Feedback**

The correct answer is 'False'.

### Question 29

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Coupling is a qualitative indication of the degree to which a module

Select one:

a. Can be written more compactly

b. Focuses on just one thing

c. Is able to complete its function in a timely manner

d. Is connected to other modules and the outside world Correct

#### **Feedback**

The correct answer is: Is connected to other modules and the outside world

### Question 30

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Planning ahead for software reuse reduces the cost and increases the value of the systems into which they are incorporated.

Select one:

True Correct

False

#### **Feedback**

The correct answer is 'True'.

### Question 31

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Metrics can be used to indicate the relative strength of a software quality attribute.

Select one:

True Correct

False

#### **Feedback**

The correct answer is 'True'.

### Question 32

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of the follwoing problems can be considered to be contributing to the present software crisis?

*(This has multiple answers)*

Select one or more:

a. Large problem Size Correct

b. Lack of rapid progress of software engineering Correct

c. Lack of intelligent engineering Incorrect

d. Shortage of skilled manpower Correct

#### **Feedback**

The correct answer is: Large problem Size, Lack of rapid progress of software engineering, Shortage of skilled manpower

### Question 33

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

In a classical waterfall model, which phase precedes the design phase?

Select one:

a. Coding and testing

b. Maintenance

c. Requirements analysis and specifications Correct

d. Feasibility Study

#### **Feedback**

The correct answer is: Requirements analysis and specifications

### Question 34

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

Which of the following is not an example of infrastructure components that may need to be integrated into the software acrhitecture?

Select one:

a. Communication Component Incorrect

b. Database components

c. Interface components

d. Memory management components

#### **Feedback**

The correct answer is: Interface components

### Question 35

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Among all the phases of the softwaer development lifecycle, which phase consumes the maximum effort?

Select one:

a. Design

b. Maintenance Correct

c. Testing

d. Coding

#### **Feedback**

The correct answer is: Maintenance

### Question 36

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of the following is not an example of data restructuring?

Select one:

a. Data Analysis Correct

b. Data name rationalization

c. Data name standardization

d. None of the above

#### **Feedback**

The correct answer is: Data Analysis

### Question 37

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

How much effort is typically expended by a software organization on software maintenance?

Select one:

a. 20%

b. 40%

c. 60% Correct

d. 80%

#### **Feedback**

The correct answer is: 60%

### Question 38

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Software is a product and can be manufacturedd using the same technologies used for other engineering artifacts

Select one:

True

False Correct

#### **Feedback**

The correct answer is 'False'.

### Question 39

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which factors should be considered in choosing the organizational structure for a software team?

Note: this has multiple answers

Select one or more:

a. Degree of communication desired Correct

b. Predicted size of resulting program Correct

c. Rigidity of the delivery date Correct

d. Size of the project budget

#### **Feedback**

The correct answer is: Degree of communication desired, Predicted size of resulting program, Rigidity of the delivery date

### Question 40

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Product and process decomposition occurs simultaneosly as the project plan evolves

Select one:

True Correct

False

#### **Feedback**

The correct answer is 'True'.

### Question 41

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Evolutionary software models are

Select one:

a. Interactive in nature

b. Can easily accomodate product requirements chages

c. Do not generally produce throwaway systems

d. All of the above Correct

#### **Feedback**

The correct answer is: All of the above

### Question 42

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

By collecting software metrics and making use of existing software reliability models it is possible to develop meaningful guidelines for determining when software testing is done.

Select one:

True Correct

False

#### **Feedback**

The correct answer is 'True'.

### Question 43

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of these are objectives of Team software process? (*mutiple answers)*

Select one or more:

a. Accelerate software process improvement Incorrect

b. Allow better time management by highly trained professionals Correct

c. Build self directed software teams Correct

d. Show managers how to reduce costs and sustain quality

#### **Feedback**

The correct answer is: Allow better time management by highly trained professionals, Build self directed software teams

### Question 44

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Attempts to apply mathematical proof to demonstrate that a program conforms to its specifications are doomed to failure.

Select one:

True

False Correct

#### **Feedback**

The correct answer is 'False'.

### Question 45

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

The cost benefits derived from reengineering are realized largely due to decreased maintenance and support costs for the new software product.

Select one:

True Correct

False

#### **Feedback**

The correct answer is 'True'.

### Question 46

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of the following is not considered a stakeholder in the software process?

Select one:

a. Customers

b. End users

c. Project managers

d. Sales people Correct

#### **Feedback**

The correct answer is: Sales people

### Question 47

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

The first step in project planning is to

Select one:

a. Determine the budget

b. Select a team organizational model

c. Determine the project constraints

d. Establish the objectives and scope Correct

#### **Feedback**

The correct answer is: Establish the objectives and scope

### Question 48

Incorrect

Mark 0.00 out of 1.00

Flag question

#### **Question text**

Black box testing attempts to find errors in which of the following categories

Select one:

a. Incorrect or missing functions

b. Interface errors

c. performance errors Incorrect

d. All of these

#### **Feedback**

The correct answer is: All of these

### Question 49

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

Which of these are valid reasons for measuring software processes, products, and resources?

Note: this has multiple answers

Select one or more:

a. To characterize them Correct

b. To evaluate them Correct

c. To price them

d. To improve them Correct

#### **Feedback**

The correct answer is: To characterize them, To evaluate them, To improve them

### Question 50

Correct

Mark 1.00 out of 1.00

Flag question

#### **Question text**

UML activity diagram are useful in representing which analysis model elements?

Select one:

a. Behavioral elements

b. Class based elements

c. Flow based elements

d. Scenatio based elements. Correct

#### **Feedback**

The correct answer is: Scenatio based elements.

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**Angela Head Shot**Angela Labianca-Campbell

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