

Started on	Friday, 3 November 2023, 9:01 PM
State	Finished
Completed on	Friday, 3 November 2023, 9:05 PM
Time taken	4 mins 32 secs
Marks	18.00/30.00
Grade	60.00 out of 100.00

Question 1

Correct

Mark 1.00 out of 1.00

The correct order for all requirement engineering techniques is

Select one:

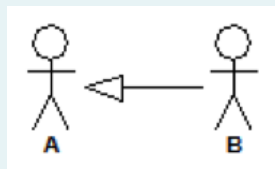
- ☐ a. Analysis, Gathering, Specifications
- ☐ b. Gathering, Specifications, Analysis
- ☒ c. Gathering, Analysis, Specifications ✓
- ☐ d. Analysis, Specifications, Gathering

Question 2

Correct

Mark 1.00 out of 1.00

Which of the following statements about the given diagram clipping are true? (more than one answer)



Select one or more:

- ☒ a. B inherits all of A's associations ✓
- ☐ b. A inherits all of B's associations
- ☐ c. A can execute the same use cases as B
- ☒ d. B can execute the same use cases as A. ✓

Question 3

Incorrect

Mark 0.00 out of 1.00

This is the process of preparing the document for professional printing. It is supported by desktop-publishing packages, artwork packages and type styling programs. This process is Document Polishing

Select one:

- ☒ True ✗
- ☐ False

Question 4

Correct

Mark 1.00 out of 1.00

Indirect communication is usually used when an object cannot or does not want to know the identity of the object whose method it calls.

Select one:

- ☒ True ✓
- ☐ False

Question 5

Incorrect

Mark 0.00 out of 1.00

Boundary testing and Control-flow testing are criteria for ?

Select one:

- ☒ a. Unit Testing ✗
- ☐ b. Test Coverage
- ☐ c. Code Coverage
- ☐ d. None of the above

Question 6

Correct

Mark 1.00 out of 1.00

Product documentation is used after the system is operational but is also essential for management of the system development.

Select one:

- ☒ True ✓
- ☐ False

Question 7

Incorrect

Mark 0.00 out of 1.00

Objects are abstractions that specify the state and behavior of different collections of objects.

Select one:

- ☒ True ✗
- ☐ False

Question 8

Incorrect

Mark 0.00 out of 1.00

-----cohesion is difficult to automate

Select one:

- ☒ a. Syntactic ❌
- ☐ b. Semantic
- ☐ c. Internal
- ☐ d. None of the above

Question 9

Correct

Mark 1.00 out of 1.00

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

Select one:

- ☐ True
- ☒ False ✔️

Question 10

Correct

Mark 1.00 out of 1.00

The term _____ is often used to describe modifying the design and/or implementation of a software module without changing its external behavior, and is sometimes informally referred to as "cleaning it up."

Select one:

- ☐ a. Designing
- ☐ b. Factoring
- ☒ c. Refactoring ✔️
- ☐ d. Polymorphism

Question 11

Correct

Mark 1.00 out of 1.00

On the Ordinal Cohesion Scale, rate the following in the Lowest to Highest order of cohesion.

Select one:

- ☐ a. Logical , Coincidental, Sequential, Temporal, Functional
- ☐ b. Coincidental, Sequential, Functional, Temporal, Logical
- ☒ c. Coincidental, Logical, Temporal, Sequential, Functional ✔️
- ☐ d. Logical, Sequential, Coincidental, Temporal, Functional

Question 12

Correct

Mark 1.00 out of 1.00

Software Architecture is a phase of software development

Select one:

- ☒ True ✓
- ☐ False

Question 13

Correct

Mark 1.00 out of 1.00

End-users use the software to assist with some task. This may be flying an aircraft, managing insurance policies, writing a book, etc. They want to know how the software can help them. They are not interested in computer or administration details.

Select one:

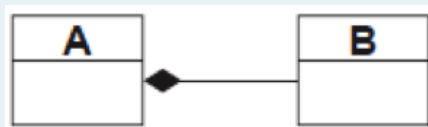
- ☒ True ✓
- ☐ False

Question 14

Correct

Mark 1.00 out of 1.00

Consider the following diagram



. Which of the following is true for the image?

Select one:

- ☐ a. If an instance of A is deleted, the contained instances of B are not affected.
- ☐ b. If an instance of B is deleted, all contained instances of A are also deleted.
- ☒ c. If an instance of A is deleted, all contained instances of B are also deleted. ✓
- ☐ d. None of the above

Question 15

Correct

Mark 1.00 out of 1.00

Equivalence testing divides the input domain into classes of data from which test cases can be derived to reduce the total number of test cases that must be developed.

Select one:

- ☒ True ✓
- ☐ False

Question 16

Correct

Mark 1.00 out of 1.00

A use case represents an activity that an actor can perform on the system and what the system does in response.

Select one:

- ☒ True ✓
- ☐ False

Question 17

Incorrect

Mark 0.00 out of 1.00

-----measures the degree to which the specification or code of a software program has been exercised by tests. -----
measures the degree to which the source code of a program has been tested.

Select one:

- ☐ a. Test coverage, Code coverage
- ☒ b. Code coverage, Test coverage ✗
- ☐ c. Acceptance Test, Unit Test
- ☐ d. Unit Test, Acceptance Test

Question 18

Incorrect

Mark 0.00 out of 1.00

Process models are described as agile because they ?

Select one:

- ☐ a. eliminate the need for cumbersome documentation
- ☐ b. emphasize maneuverability and adaptability
- ☐ c. do not waste development time on planning activities
- ☒ d. make extensive use of prototype creation ✗

Question 19

Incorrect

Mark 0.00 out of 1.00

Software architecture focuses on -----requirements and decomposition of -----requirements.

Select one:

- ☒ a. Functional , Non Functional ✗
- ☐ b. Non Functional, Functional
- ☐ c. Behavioral, Contextual
- ☐ d. Contextual, Behavioral

Question 20

Correct

Mark 1.00 out of 1.00

This traceability property is critical for a good development method (process), because the design elaboration progresses systematically, without great leaps that are difficult to grasp and/or follow.

Select one:

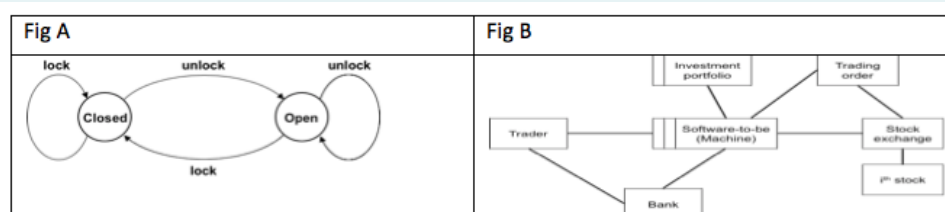
- ☒ True ✓
- ☐ False

Question 21

Correct

Mark 1.00 out of 1.00

Look at the two diagrams and identify them.



Select one:

- ☐ a. UML, State
- ☐ b. Context, State
- ☒ c. State , Context ✓
- ☐ d. None of the above

Question 22

Incorrect

Mark 0.00 out of 1.00

4. A ----- is a path that begins and ends at the same node whereas a ----- is a circuit with no node (other than the starting node) included more than once

Select one:

- ☒ a. Cycle, Circuit ✗
- ☐ b. Circuit, Cycle
- ☐ c. Valid, Invalid
- ☐ d. None of the above

Question 23

Correct

Mark 1.00 out of 1.00

Organizations are often fronted by a point-of-contact person. A common pattern is to have a specialized worker to take orders from the clients and orchestrate the workings of the workers inside the system. This type of object is known as Controller.

Select one:

- ☒ True ✓
- ☐ False

Question 24

Correct

Mark 1.00 out of 1.00

A popular approach to micro-level design is known as *responsibility-driven design* (RDD). We know the types of responsibilities that objects can have:

- Type 1 responsibility (knowing): Memorizing data or references, such as data values, data collections, or references to other objects, represented as a _____.
- Type 2 responsibility (doing): Performing computations, such as data processing, control of physical devices, etc., represented as a _____
- Type 3 responsibility (communicating): Communicating with other objects, represented as _____ sending (method invocation).

Select one:

- ☐ a. Message, Method, Property
- ☒ b. Property , Method, Message ✓
- ☐ c. Method, Property, Message
- ☐ d. Property, Message, Method

Question 25

Incorrect

Mark 0.00 out of 1.00

The term FURPS refers to

Select one:

- ☒ a. Functional system properties ✗
- ☐ b. Non functional system properties
- ☐ c. Both a and b
- ☐ d. None of the above

Question 26

Correct

Mark 1.00 out of 1.00

Acceptance Tests are the test specified by the customer, written during the requirements analysis.

Select one:

- ☒ True ✓
- ☐ False

Question 27

Incorrect

Mark 0.00 out of 1.00

In UML diagrams, relationship between object and component parts is represented by

Select one:

- ☒ a. ordination ✗
- ☐ b. aggregation
- ☐ c. segregation
- ☐ d. increment

Question 28

Incorrect

Mark 0.00 out of 1.00

Concept Maps, while representing knowledge about the problem domain, are expressed in terms of 'concepts' and -----, and are used to represent knowledge, beliefs, feelings etc.

Select one:

- ☐ a. Problems
- ☐ b. Prepositions
- ☐ c. Adverbs
- ☒ d. Verbs ✗

Question 29

Correct

Mark 1.00 out of 1.00

'Velocity' of the development team (in effort estimation) is defined are the -----?

Select one:

- ☐ a. Duration needed to develop the system
- ☐ b. Effort needed to develop the system
- ☒ c. Productivity of the team ✓
- ☐ d. Speed of the team


Question 30

Incorrect

Mark 0.00 out of 1.00

The size estimate for a software product to be built must be based on a direct measure like LOC.

Select one:

☒ True 

☐ False