

# Final Exam

**Due** 4 May 2023 at 13:30**Points** 50**Questions** 50**Available** until 4 May 2023 at 13:30**Time limit** 60 Minutes

## Instructions

Please attempt all questions

Duration is 60 min

This quiz is no longer available as the course has been concluded.

## Attempt history

	Attempt	Time	Score
LATEST	<a href="#">Attempt 1</a>	53 minutes	47 out of 50

Score for this quiz: **47** out of 50

Submitted 4 May 2023 at 13:28

This attempt took 53 minutes.

### Question 1

**1 / 1 pts**

Which of the following is NOT an objective of a Retrospect Sprint Meeting?

- ☐ Identify Process Improvements.
- ☐ Identify Process problems and bottlenecks.

**Correct!**

- ☐ Identify Best Practices.
- ☒ Identify Feature Improvements.

**Question 2****0 / 1 pts**

Which of the following is a responsibility of the Scrum Master in the context of change in Scrum?

**You Answered**

- ☒ Approving amended, removed, or added changes according to project requirements and communicating to the Scrum Team.

- ☐ Eliminating all changes that may affect the quality of deliverables and processes

**Incorrect answer**

- ☐ Facilitating the identification of Change Requests by the Scrum Team and their assessment and prioritization by the Product Owner.
- ☐ Providing requests for changes in a project.

**Question 3****1 / 1 pts**

Which of the following are roles in the Scrum framework?

**Correct!**

- ☐ Project Master
- ☒ Product Owner
- ☐ Project Manager
- ☐ Tech Lead

**Question 4****1 / 1 pts**

What is most important in all Scrum Teams?

- A) Self-management
- B) Clear hierarchies
- C) Communication
- D) Continuous improvement

**Correct!**

- ☒ A, C, D
- ☐ A, B, C, D
- ☐ A, B
- ☐ A, D

**Question 5****0 / 1 pts**

The primary purpose of the daily scrum (daily stand-up) is:

☐ To give a status report to the ScrumMaster

☐ Developers inspect how progress is made towards the Sprint Goal and adapt how the remaining work is done accordingly.

☒ To give a status report to the product owner

☐ To give team members a chance to take a break from their tasks

Incorrect answer

You Answered

### Question 6

1 / 1 pts

Which one of the following is NOT traditionally an activity of the Scrum framework?

☒ Weekly inspection

☐ Sprint planning

☐ Sprint retrospective

☐ Sprint review

Correct!

### Question 7

1 / 1 pts

Waterfall is an example of

- ☐ Test Driven Development
- ☐ Scrum
- ☒ Plan Driven Model
- ☐ Agile Model

**Correct!**

### Question 8

1 / 1 pts

Which of these process models makes significant use of UML

- ☐ V-Model
- ☐ Boehm's Spiral Model
- ☒ Rational Unified Process
- ☐ Kanban

**Correct!**

### Question 9

1 / 1 pts

Which of these may be an example of a non-functional requirement for the Foodpanda app

**Correct!**

☐ A user should be able to search for dishes within each restaurant

☐ Credit cards should be accepted



The app should allow displaying up to 1000 restaurants with no performance degradation



Selecting a location should display restaurants within a 5km radius

**Question 10****1 / 1 pts**

Which of these is NOT a typical Software Development Activity?

☐ Software Development

☒ Software Inspection

☐ Software Maintenance

☐ Software Validation

**Correct!****Question 11****1 / 1 pts**

Which of these is true about Automated Tests

- ☐ Exploratory testing is an example of Automated tests
- ☐ Automated tests require less initial investment to set up than manual tests
- ☐ Automated tests are slower to run than manual tests
- ☒ Automated tests are more reliable than manual tests

**Correct!****Question 12****1 / 1 pts**

Which of these is a feature of Black Box Testing?

- ☐ Unit tests are an example of Black Box testing
- ☐ It starts by looking at the structure and logic of the code
- ☐ It is generally done by developers only
- ☒ No understanding of programming is needed

**Correct!****Question 13****1 / 1 pts**

Which one of the following Models is not suitable for accommodating change?

**Correct!**

- ☐ Incremental Model
- ☒ Waterfall Model
- ☐ Agile Model
- ☐ Re-use Oriented Model

**Question 14****1 / 1 pts**

“Consider a system where, a heat sensor detects an intrusion and alerts the security company.” What kind of a requirement the system is providing?

**Correct!**

- ☒ Functional
- ☐ None of the above
- ☐ Known Requirement
- ☐ Non-Functional

**Question 15****1 / 1 pts**

A single Non-Functional requirement may generate multiple Functional requirements that define system behavior.



**Correct!**

- ☒ True
- ☐ False

**Question 16****1 / 1 pts**

An external perspective, where you model the environment of the system defining the boundaries is called?

**Correct!**

- ☒ Context Model
- ☐ Behavioral Model
- ☐ Interaction Model
- ☐ Structural Model

**Question 17****1 / 1 pts**

What is the purpose of requirements engineering?

**Correct!**

- ☐ To develop software
- ☒ To gather, analyze, document, and validate user requirements
- ☐ To test software

☐ To deploy software

**Question 18****1 / 1 pts**

Which of the following is not a technique used for requirements elicitation?

**Correct!**

☒ Scrum

☐ Interviews

☐ Prototyping

☐ Brainstorming

**Question 19****1 / 1 pts**

What is the difference between a functional and non-functional requirement?

**Correct!**

☒ Functional requirements describe the system behavior, while non-functional requirements describe the system constraints and attributes.

☐

Non-functional requirements describe the system behavior, while functional requirements describe the system constraints and attributes.



Functional requirements describe what the software should do, while non-functional requirements describe how the software should perform.



Non-functional requirements describe what the software should do, while functional requirements describe how the software should perform.

## Question 20

1 / 1 pts

What is the purpose of requirements validation?



To ensure that the requirements are testable and measurable



To ensure that the requirements are complete and consistent



To ensure that the requirements are feasible and achievable



All of the above

Correct!

## Question 21

1 / 1 pts

Which of these is a disadvantage of Waterfall

- ☐ There is no time for testing
- ☒ Accommodating changes are difficult once the project has started
- ☐ Sprints can be too short to get measurable work done
- ☐ Requires a dedicated team just for project management

Correct!

## Question 22

1 / 1 pts

Which software process model emphasizes on continuous feedback and customer involvement?

- ☒ Agile model
- ☐ Spiral model
- ☐ V-model
- ☐ Waterfall Model

Correct!

## Question 23

1 / 1 pts

Class diagrams are used when developing Object-Oriented system

model to show only Classes.

☐ True

☒ False

Correct!

### Question 24

1 / 1 pts

Which model show dynamic behavior of system when it responds to a stimulus from its environment?

☐ Context Models

☐ Interaction Models

☒ Behavioral Models

☐ Structural Models

Correct!

### Question 25

1 / 1 pts

What is the primary goal of Agile development?

☐ To follow a rigid development process

☐ To follow a pre-determined schedule

**Correct!**

- ☐ To deliver a high-quality software product
- ☒ To deliver a working software product

**Question 26****1 / 1 pts**

Which of the following is NOT an Agile value

- ☐ Working software over comprehensive documentation
- ☐ Customer collaboration over contract negotiation
- ☐ Individuals and interactions over processes and tools
- ☒ Following a pre-determined plan over responding to change

**Correct!****Question 27****1 / 1 pts**

What is a Sprint in Scrum?

- ☒ A period of time, typically 2-4 weeks, during which the team works on a set of tasks
- ☐ A tool for tracking the progress of the project
- ☐ A document that defines the project scope and objectives

**Correct!**

- ☐ A meeting where the team discusses progress and obstacles

**Question 28****1 / 1 pts**

What is the purpose of the Sprint Review in the Scrum framework?

- ☐ To review the progress of the project as a whole
- ☒ To present the work completed in the Sprint to stakeholders
- ☐ To prioritize the backlog items for the next Sprint
- ☐ To plan the work to be done in the next Sprint

**Correct!****Question 29****1 / 1 pts**

What is the role of the Scrum Master in a Sprint?

- ☐ To assign tasks to team members
- ☐ To manage the team's work
- ☐ To communicate with stakeholders
- ☒ To ensure the team follows the Scrum framework

**Correct!**

**Question 30****1 / 1 pts**

In Sprint planning, what is the primary focus of the team?

- ☐ Creating a detailed project plan
- ☐ Estimating the time needed to complete each backlog item
- ☐ Assigning tasks to team members
- ☒ Identifying and prioritizing the backlog items to be completed in the Sprint

**Correct!****Question 31****0 / 1 pts**

What is the purpose of the Sprint Backlog?

- ☒ To list all the backlog items for the entire project
- ☐ To track the progress of the team during the Sprint
- ☐ To prioritize backlog items for the next Sprint
- ☐ To list all the tasks that need to be completed during the Sprint

**You Answered****Incorrect answer**



**Question 32****1 / 1 pts**

In the Sprint Review, who is responsible for accepting or rejecting the work completed by the team?

**Correct!**

- ☒ The Product Owner
- ☐ The team members
- ☐ The stakeholders
- ☐ The Scrum Master

**Question 33****1 / 1 pts**

Which of the following is not a common artifact used in the Sprint methodology?

**Correct!**

- ☒ Work Breakdown Structure
- ☐ Sprint Backlog
- ☐ Burn-down Chart
- ☐ Product Backlog

**Question 34****1 / 1 pts**

What is a user story?

Correct!

- ☐ A diagram that shows the user interface of a software feature
- ☒ A narrative description of a software feature from the perspective of a user
- ☐ A list of technical requirements for a software feature
- ☐ None of the above

### Question 35

1 / 1 pts

What is the difference between a user story and a use case?

Correct!

- ☐ A user story is a detailed description of how a user interacts with a system, while a use case is a narrative description of a feature from the perspective of an end user.
- ☐ A user story is focused on the business value of a feature, while a use case is focused on the technical implementation.
- ☒ A user story is a narrative description of a feature from the perspective of an end user, while a use case is a detailed description of how a user interacts with a system.

- ☐ A user story and a use case are essentially the same thing.

**Question 36****1 / 1 pts**

What is the format of a user story?

- ☐ A diagram or flowchart illustrating the functionality of the software.
- ☐ A bullet-point list of technical requirements.
- ☒ As a <user>, I want <goal/desire> so that <reason/benefit>.
- ☐ A detailed description of the software user interface.

**Correct!****Question 37****1 / 1 pts**

What is the purpose of including acceptance criteria in a user story?

- ☐ To ensure that the development team understands the requirements and goals of the user story.
- ☐ To specify the technical details of the software implementation.
- ☒ To define the conditions that must be met for the user story to be considered complete.

**Correct!**

To provide a checklist for testing the functionality of the software feature.



To estimate the budget and timeline for the software development project.

### Question 38

1 / 1 pts

API is an interface through which a user interacts with electronic devices such as computers and smartphones.



True



False

Correct!

### Question 39

1 / 1 pts

Which of the following is not a common API design principle?



Consistency



Complexity



Simplicity



Flexibility

Correct!

**Question 40****1 / 1 pts**

What is Not part of UI elements?

- ☐ Navigational elements
- ☐ Informational components
- ☒ HTML Code
- ☐ Input controls

**Correct!****Question 41****1 / 1 pts**

What is the difference between UI and UX design?

- ☐ UI design and UX design are the same thing
- ☐ None of the above
- ☐ UI design focuses on the user experience while UX design focuses on the visual appearance

**Correct!**

UI design focuses on the visual appearance while UX design focuses on the user experience

**Question 42****1 / 1 pts**

Which is NOT part of Testing Process?

**Correct!**☒ None of the Above☐ Test Design☐ Test Execution☐ Test Planning**Question 43****1 / 1 pts**

What is Continuous Integration (CI)?

**Correct!**☒ A practice of integrating code changes into a shared repository frequently☐ A practice of manually testing code changes before integration☐ A practice of documenting code changes before integration

- ☐ A practice of automatically deploying code changes to production

**Question 44****1 / 1 pts**

What is Continuous Delivery (CD)?

- ☐ A practice of testing code changes before deployment
- ☐ A practice of integrating code changes into a shared repository frequently
- ☒ A practice of deploying code changes to production automatically
- ☐ A practice of deploying code changes to production manually

**Correct!****Question 45****1 / 1 pts**

What is DevOps?

- ☐ A software development methodology
- ☐ A type of programming language
- ☒ A set of practices and tools for automating the software delivery process

**Correct!**

A set of practices that combine software development (Dev) and IT operations (Ops)

- ☐ A cloud computing platform

### Question 46

1 / 1 pts

DevOps Culture Increases:

- ☐ Collaboration
- ☒ All of Above
- ☐ Communication
- ☐ Transparency

Correct!

### Question 47

1 / 1 pts

Which of the following is a benefit of automated testing?

- ☐ Faster testing
- ☒ All of the above
- ☐ Increased test coverage

Correct!



☐ More accurate testing

**Question 48****1 / 1 pts**

DevOps relies heavily on automation to reduce the manual effort required to deploy and manage software.

**Correct!**

☒ True

☐ False

**Question 49****1 / 1 pts**

What are the challenges of Implementing DevOps in an organization?

☐ Cost for Tools and Skillset

☐ Security

☐ Cultural Shift

**Correct!**

☒ All of Above

**Question 50****1 / 1 pts**

Which of the following activities is not part of software engineering?

☐ Testing☒ Marketing☐ Coding☐ Design**Correct!****Quiz score: 47 out of 50**