

# Final Exam

**Due** May 4, 2023 at 1:40pm

**Points** 100

**Questions** 50

**Available** May 4, 2023 at 12:30pm - May 4, 2023 at 1:40pm 1 hour and 10 minutes

**Time Limit** None

## Instructions

- The final exam consists of 50 multiple choice questions.
- You have 1 hour for the final exam.
- All questions have ONE correct answer from the 4 given choices.

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

## Attempt History

	Attempt	Time	Score
LATEST	<a href="#">Attempt 1</a>	57 minutes	94 out of 100

Score for this quiz: **94** out of 100  
Submitted May 4, 2023 at 1:28pm  
This attempt took 57 minutes.

Question 1

0 / 2 pts

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

Discuss process improvements

Identify new features to work on

Identify best practices to use in subsequent sprints

Identify process problems and bottlenecks

Correct Answer

You Answered

https://hulms.instructure.com/courses/2441/quizzes/7903

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**Question 2****2 / 2 pts**

Which of these is a role in the Scrum framework?

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

**Correct!****Question 3****2 / 2 pts**

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

- ☒ Weekly inspection
- ☐ Sprint review
- ☐ Sprint planning
- ☐ Sprint retrospective

**Correct!****Question 4****2 / 2 pts**

Which statement of the following is the best description for sprint?



A sprint is a condensed amount of time where developers work as many hours as they need to finish the work assigned to them



A sprint is a fixed amount of time set aside for the team to run tests and resolve any outstanding bugs right before the product ships

**Correct!**



A sprint is a pre-specified amount of time in which the development team works at a sustained pace to complete a chosen set of items from the Product Backlog



A sprint is a pre-specified period during which team members choose individual items from the product backlog to work on. A new task is brought into the sprint as each item is completed.

### Question 5

2 / 2 pts

An good approach to documentation in Scrum is:



Do no documentation because it is a waste of time



Do more documentation than usual because Agile is risky



Do sufficient documentation to prove you have done an excellent job

**Correct!**



Do the necessary documentation to support the development and use of the product

### Question 6

2 / 2 pts

Which of the following best describes the approach for determining the Sprint length?

☐ Sprint should always be two weeks



The team should agree on a fixed length of the Sprint, ideally 1-2 weeks

☐ Sprint should always be 30 days



The team determines Sprint length by dividing the total number of story points by the average velocity of the team

Correct!

## Question 7

2 / 2 pts

Which of these statements best describes the Agile approach to teamwork?



The team should strive for a sustainable pace that they can maintain potentially for a long time



The team should plan to work overtime regularly throughout the project



The team will regularly need to work many hours overtime but can compensate for this during periods of less intensity



The team should expect to work longer hours towards the end of the project to deliver all that was committed to

Correct!

**Question 8****2 / 2 pts**

Which is a useful tool to test APIs as demonstrated in class?

**Correct!**☒ Postman☐ Docker☐ Jenkins☐ Swagger**Question 9****2 / 2 pts**

Which of the following changes the functionality of code?

**Correct!**☐ Minification☒ Bug fixes☐ Obfuscation☐ Refactoring**Question 10****2 / 2 pts**

What is the difference between UI and UX design?

☐ UI design and UX design are the same thing

**Correct!**

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



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



UI design is for websites whereas UX design is for mobile apps

**Question 11****2 / 2 pts**

Which of the following is NOT a type of software testing?



Analysis testing



Integration testing



Regression testing



Unit testing

**Correct!****Question 12****2 / 2 pts**

What is DevOps?



A software process model



A type of programming language



A cloud computing platform

**Correct!**

A set of best practices that combine Software Development and IT Operations

**Question 13****2 / 2 pts**

Which of the following is NOT a benefit of DevOps?

**Correct!**

Higher development costs



Increased collaboration between development and operations teams



Faster time-to-market for products



Improved software quality and reliability

**Question 14****2 / 2 pts**

What color would #989898 be closest to?



White



Black



Gray



Blue

**Correct!****Question 15****2 / 2 pts**

A prototype is an example of the following strategy

☐ Change Tolerance

☐ Change Detection

☒ Change Avoidance

☐ Change Rejection

Correct!

### Question 16

2 / 2 pts

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

☒

The app should have no performance degradation on 2G/3G data networks

☐ A user should be able to reset their password

☐ Credit cards should be accepted as payment

☐ A user should be able to find available cars within a 5km radius

Correct!

### Question 17

2 / 2 pts

Which color would #006600 be?

☐ Dark Blue



**Correct!**

- ☐ Light Blue
- ☒ Dark Green
- ☐ Light Green

**Question 18****2 / 2 pts**

A minified javascript file will typically have what file extension?

- ☐ .jsx
- ☐ .less.js
- ☐ .jsm
- ☒ .min.js

**Correct!****Question 19****2 / 2 pts**

All docker commands for a project are listed in a file called

- ☒ Dockerfile
- ☐ template.docker
- ☐ Docker
- ☐ .dockerfile

**Correct!****Question 20****2 / 2 pts**

Static analysis involves:

- ☐ Running your code with different inputs to identify bugs
- ☐ Cleaning up the layout, indentation, tabs/spaces etc of your code
- ☐ Finding and fixing code smells
- ☒ Debugging your code without running it

Correct!

### Question 21

2 / 2 pts

Which of these is NOT true about static analysis?

- ☐ Static analysis can be called as "testing of source code"
- ☐ There are third party tools built just for static analysis
- ☐ Linting is a type of static analysis
- ☒ Static analysis is the same as unit testing

Correct!

### Question 22

2 / 2 pts

What is Regression testing?

- ☐ Testing of new features or functionality
- ☐ Testing of the user interface
- ☐ Testing of APIs

**Correct!**

Testing of existing features or functionality to ensure they still work after changes or additions have been made to the software

**Question 23****2 / 2 pts**

What is Continuous Integration (CI)?



A practice of automatically deploying code changes to production



A practice of manually testing code changes before integration



A practice of integrating code changes into a shared code repository frequently



A practice of writing unit tests for all code written

**Correct!****Question 24****2 / 2 pts**

Which of the following is NOT a DevOps tool?



AWS Codepipeline



Jenkins



Postman



Docker

**Correct!**

**Question 25****2 / 2 pts**

The two types of testing depending upon whether a human being or a computer does the testing is:

**Correct!**

- ☒ Manual testing/Automated testing
- ☐ Black box testing/White box testing
- ☐ Smoke testing/Integration testing
- ☐ Unit testing/Regression testing

**Question 26****2 / 2 pts**

"As a \_\_\_\_\_, I want to \_\_\_\_\_ so that I can \_\_\_\_\_" is the general structure for a

**Correct!**

- ☐ Use Case
- ☐ Sprint Task
- ☐ Bug
- ☒ User Story

**Question 27****2 / 2 pts**

Which of these is NOT a value of the Agile manifesto

**Correct!**

- ☒ Processes and tools over individuals and interactions

- ☐ Responding to change over following a plan
- ☐ Working software over comprehensive documentation
- ☐ Customer collaboration over contract negotiation

**Question 28****0 / 2 pts**

Which of these is NOT true about user stories

**Incorrect Answer**

- ☐ Each user story for a project should ideally have a use case diagram with it

**Correctly Answered**

- ☒ Everyone in the team is encouraged to pitch in with user stories
- ☐ A properly written set of user stories can act as a requirements specification
- ☐ User stories can be written throughout the project

**Question 29****2 / 2 pts**

Most mobile apps today with a frontend communicating with a backend are built on what architecture?

- ☐ Microservices
- ☐ Monolith

**Correct!**

- ☒ Client-Server (API)

- ☐ Model-View-Controller (MVC)

**Question 30****2 / 2 pts**

Which of these is NOT a reason why DevOps became popular

**Correct!**

- ☒ Docker images took up massive amounts of space
- ☐ Development was agile but deployment was not
- ☐ In case of issues, reverting back to a previous version of code was a nightmare
- ☐ Software/version differences between developer systems and production systems caused issues

**Question 31****2 / 2 pts**

Which of these is NOT a way to do estimations/prioritization in Agile?

**Correct!**

- ☐ Story points
- ☐ Value points
- ☐ Number of hours of effort per task
- ☒ Fibonacci series calculation

**Question 32****2 / 2 pts**

Which of these would NOT be considered a stakeholder for the Foodpanda food delivery app?

- ☐ Foodpanda delivery riders
- ☐ Restaurants using foodpanda
- ☒ Foodpanda developers
- ☐ Government of Sindh Food Regulatory Board

**Correct!****Question 33****2 / 2 pts**

Consistency of Requirements means...

- ☐ Requirements should be the same for all users
- ☒ Requirements should not contradict or conflict with each other
- ☐ Requirements should not be more than 1 line
- ☐ Developers should know about all requirements

**Correct!****Question 34****2 / 2 pts**

The main approach to do estimations is:

**Correct!**

Break your project down into components as small as possible that will be easier to estimate



Do a rough estimate initially and frequently revise the estimate as the project goes on



Add a significant buffer to each estimate to allow for unforeseen circumstances



Assign tasks to developers most experienced to carry the work

**Question 35****2 / 2 pts**

Which of these is NOT an advantage of APIs



APIs ensure consistent performance across all clients



APIs keeps all critical/secure logic on the server side



Client does not need to know about implementation details of the API



APIs are more secure than monolith architecture

**Correct!****Question 36****2 / 2 pts**

Which of the following HTTP methods is used to retrieve data from a server using an API?



PUT



☐ INPUT☐ POST☒ GET**Correct!****Question 37****2 / 2 pts**

Which of these UML diagrams shows interactions in a system over time?

☐ Gantt Chart☒ Sequence Diagram☐ Class Diagram☐ Use Case Diagram**Correct!****Question 38****2 / 2 pts**

Which of these is a typical product design flow:

☒ Wireframes > High fidelity designs > Development☐ Wireframes > Development > High fidelity designs > Development☐ Development > Wireframes > High fidelity designs > Development☐ Wireframes > Development > High fidelity designs**Correct!**

**Question 39****2 / 2 pts**

Which of these is NOT a typical Test Case field?

- ☐ Expected Result
- ☐ Test Steps
- ☒ Build Location
- ☐ Prerequisites

**Correct!****Question 40****2 / 2 pts**

Which of these kinds of testing is done by the clients/end users as a final validation of the product against their requirements

- ☐ Exploratory Testing
- ☒ User Acceptance Testing
- ☐ Functional Testing
- ☐ Smoke Testing

**Correct!****Question 41****2 / 2 pts**

Which of the following is NOT a commonly used tool for automated testing?

- ☐ JMeter

☐ Selenium☐ Loadrunner☒ Git**Correct!****Question 42****2 / 2 pts**

Facebook has a separate website interfaces for desktop (facebook.com) and mobile (m.facebook.com). This approach to design is called

☒ Adaptive☐ Creative☐ Responsive☐ Reactive**Correct!****Question 43****0 / 2 pts**

The process of removing unnecessary or redundant data to reduce file size of code is called:

☒ Obfuscation☐ Refactoring☐ Compilation☐ Minification**You Answered****Correct Answer**

**Question 44****2 / 2 pts**

Which one of the following Software Process Models is not suitable for accommodating changes?

- ☐ Scrum
- ☐ Incremental Model
- ☐ Agile
- ☒ Waterfall Model

**Correct!****Question 45****2 / 2 pts**

What is one outcome of a sprint planning meeting?

- ☐ A requirements documents and a test plan
- ☐ A functioning product
- ☒ A sprint backlog
- ☐ A requirements documents and a Gantt chart

**Correct!****Question 46****2 / 2 pts**

Which type of testing is designed to measure how the application performs in terms of speed, scalability, stability, and responsiveness under different user loads and environmental conditions.

**Correct!**

- ☐ Unit testing
- ☐ Regression testing
- ☒ Performance testing
- ☐ Exploratory testing

**Question 47****2 / 2 pts**

Which of these is a quick test of the stability of a software?

**Correct!**

- ☒ Smoke tests
- ☐ User Acceptance tests
- ☐ Regression tests
- ☐ Performance tests

**Question 48****2 / 2 pts**

JIRA is an example of

**Correct!**

- ☐ IAAS
- ☐ PAAS
- ☒ SAAS
- ☐ FAAS

**Question 49****2 / 2 pts**

Which of these is NOT a typical feature of cloud computing services:

- ☐ Pay as you go
- ☐ High flexibility and scalability
- ☐ Better data security
- ☒ Free 24/7 customer support

**Correct!****Question 50****2 / 2 pts**

Which of these is NOT a reliable strategy to write bug free code

- ☐ Regularly perform static analysis and look out for code smells
- ☒ Whenever a bug shows up in your code, try to convince everyone that its a "feature" and not a bug
- ☐ Make sure you regularly go back to refactor code
- ☐ Make sure code is properly tested with unit tests

**Correct!****Quiz Score: 94 out of 100**