

## **Beijing-Dublin International College**



SEMESTER I FINAL EXAMINATION - 2018/2019

**School of Computer Science** 

**COMP3005J Agile Processes** 

**HEAD OF SCHOOL NAME: Prof. Pádraig Cunningham** 

MODULE COORDINATOR NAME\*: Dr. Anca D. Jurcut

**Time Allowed: 60 minutes** 

**Instructions for Candidates** 

Answer all questions. Total marks available 60.

BJUT Student ID:	UCD Student ID:
I have read and clearly understand the Exar	mination Rules of both Beijing University of
Technology and University College Dublin. I a	m aware of the Punishment for Violating the
Rules of Beijing University of Technology a	and/or University College Dublin. I hereby
promise to abide by the relevant rules and reg	gulations by not giving or receiving any help
during the exam. If caught violating the rules,	I accept the punishment thereof.
Honesty Pledge.	(Signatura)

## **Instructions for Invigilators**

Non-programmable calculators are permitted. No rough-work paper is to be provided for candidates.

Obtained	QUESTION 1		
score	Which of the following statements appear in the twelve principles represented in the agile		
	Manifesto? Check all that apply.		
	nost efficient and effective method of conveying information to and within a development		
	use email.		
	lopers and business people should work separately and have planned weekly interactions.		
	er working software frequently, from a couple of weeks to a couple of months.		
software.	ighest priority is to satisfy the customer through early and continuous delivery of valuable		
	icity (the art of maximizing the amount of work done) is essential.		
Simpl	[2 marks]		
Obtained	QUESTION 2		
score			
	Which of the following sentences about agile methods is true? Check all that apply.		
Cryst	al is a name for a set of methods using different colours to reflect the size and criticality of a		
software			
	Beck, one of the proponents of XP, suggests that contracts for software development should		
	cost, quality, and precise scope in advance.		
The L	ean Software method was inspired by techniques first applied at Toyota and the automobile		
industry.			
Most of Scrum's practices are about how to write high-quality code.			
[2 marks]			
Obtained	QUESTION 3		
score	Which of the following is not an Agile value?		
□ Iterat	ive development.		
Focus on quality, achieved through testing.			
"Big Upfront" steps.			
Limited, negotiated scope.			

[2 marks]

Obtained	QUESTION 4	
score	Which Scrum role is responsible for accepting or rejecting the result of an itera project?	ation in a
Prod Requ Requ Self-	luct owner. luct manager. uirements master. uirements managerorganising team. e of the above.	2 maykal
Obtobal	QUESTION 5	2 marks]
Obtained score	Which of the following tasks are typically assigned to an embedded customer in an project? Check all that apply.	XP
☐ Help developers to write tests. ☐ Try system early to provide feedback. ☐ Review developers' code. ☐ Provide an interface with higher management.  [2 marks]		
Obtained	QUESTION 6	
score	What's the issue with user stories according to the course? Check all that apply.	
User	stories don't really represent what the user wants. stories are to requirements what tests are to specifications: just examples. stories may misrepresent the abstraction they are supposed to describe. stories tend to change over time, becoming invalid.	
	[	2 marks]

Obtained	QUESTION 7	
score	Which of the following items can be found in an agile project's "open workspace"?	
□ Serve	r room.	
_	board with user story cards movable from "not started" to "in progress" to "done" columns. ng room with flipcharts and whiteboards.	
_	on burndown charts.	
	[2 marks] QUESTION 8	
Obtained score		
	How would you differentiate use cases from user stories? Check all that apply.	
A use	case is always written mainly by the customer, while user stories are written by the team	
	are approximately equivalent artifacts.	
	case is typically more complete and accurate than a user story.	
requiring	case provides the answer to a developer's question about customer requirements without further interaction with the customer.	
	[2 marks]	
Obtained	QUESTION 9	
score	Which of the following characteristics are typical of the backlog artifact according to Scrum methodology? Check all that apply.	
□ Open	able and editable by anyone.	
	ins backlog items: descriptions of all potential features, prioritized by business value.	
□ Includ	des estimates of development effort, set by the team.	
Owned by the Scrum master.		
Owne	ed by the Product owner.	
	[2 marks]	
Obtained	QUESTION 10	
score	Which of the following agile practices are identified as "good" in the course? Check all that apply.	
□ Daily	meeting.	

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	-space working arrangements.		
Acceptance of change.  Branching.			
			□ Produ
		[2 marks]	
		[2 marks]	
Obtained	QUESTION 11		
score	Which of the following agile practices are fl	agged as "hype" in the course? Check all that	
	apply.	agged as hype in the course. Shoot an that	
$\Box$ Plann	ing poker.		
□ Cross	-functional teams.		
	aining a sustainable pace.		
	dded customer.		
Linoc	duca customer.		
		[2 marks]	
Obtained	QUESTION 12		
score	<b>Q</b> 0=01101/12		
30016		lentified as truly "brilliant" in the course? Check	
	all that apply.		
☐ Test-	driven development.		
_	•		
Short	iterations.		
	nuous integration.		
Closed-window rule.			
		[2 marks]	
Obtained	QUESTION 13		
score			
		lentified as "ugly" in the course? Check all that	
	apply.		
□ No.ur	ofront requirements.		
_	-		
Test-driven development.			
No branching.			
□ Close	Closed-window rule.		
		[2 marks]	

In honor of Leonardo Fibonacci, who in his work as an early mathematician applied ideas that

[2 marks]

## Obtained score

## **QUESTION 16**

prefigured agile methods.

To discuss the inherent uncertainty of short-term estimation.

To reflect the numbers that statistically the majority of developers pick.

Which of the following items constitute "waste" according to Lean method? Check all that apply.

Design documents.
Defects not caught by tests and reviews.
Doing overtime.
Customer waiting.

[2 marks]

Can d	QUESTION 17  Which of the following responsibilities are assigned to the team according to Scrum method? Check all that apply.  It is work results to product owner. The office of everything within guidelines to reach goal. The is iteration goal and work results.  It is itself and its work.  [2 marks]
☐ Valid☐ Decid☐ Provid☐	QUESTION 18  Which of the following responsibilities are typically assigned to a traditional (non-agile) manager? Check all that apply.  e goals. ate requirements. be weather goals have been met. de an interface with higher management. ce rules and methodology.
Obtained score	QUESTION 19 What do agile methods suggest to maintain a sustainable pace? Check all that apply.
☐ Merge	vertime. e code as little as possible. ant refactoring. sure that a project has enough developers.

[2 marks]

Obtained	QUESTION 20	
score	What happens during a review meeting in Scrum? Check all that apply.	
	and the control of a control to the annual stand and the control of the control o	
_	earn members discuss both the completed and non-completed work with the customer.	
_	earn members demonstrate both the completed and non-completed work to the customer.	
_	eam members demonstrate the completed work to the customer.	
- The to	eam members answer the question: "What could be improved?"  [2 marks]	
Obtained	QUESTION 21	
score	Which of the following questions should a participant to a scrum of scrums meeting answer? Check all that apply.	
□ What	will your team do before we meet again?	
□ Are y	ou about to put something in another team's way?	
□ What	did your team do since we last met?	
□ Is any	thing slowing your team down?	
	[2 marks]	
Obtained	QUESTION 22	
score	Which of the following numbers can be used to measure progress in a software project according to Scrum?	
□ Num	ber of overtime hours worked by the team.	
□ Num	ber of passing tests.	
□ Velocity in story points.		
Number of failing tests.		
	[2 marks]	
Obtained score	QUESTION 23	
30010	What should the developers be offered in their working environment according to XP? Check all that apply.	
□ An ac	celerated career path for those who wish to work more, especially on week-ends.	
□ Food.		
□ Safet	y.	

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□ Belor	nging.			
□ Acco	☐ Accomplishment.			
		[2 marks]		
Obtained	QUESTION 24			
score	What does "No big Upfront Steps" mean?			
	What does 110 big opinone stops mean.			
	focus should be on achieving quality through testing.			
	the project iterations should be short.			
	the exact scope of the system should be decided in advance. software teams should not spend a long time on requirements,	design and architecture before		
	starting to code.	design, and dreintecture before		
		[2 marks]		
01.1.1	QUESTION 25			
Obtained score				
	Which of the following sentences reflect issues with the form Check all that apply.	nulation of the agile principles?		
□ Softw	vare testing is discussed in just one principle.			
□ Softv	ware testing is not discussed in any principle.			
□ There	e is some redundancy when discussing software delivery.			
□ Some	Some principles are actually assertions.			
		[2 marks]		
Obtained score	QUESTION 26			
30010	Which of the following are expected benefits of Test-Driven apply.	Development? Check all that		
	app.			
□ Write	e fewer tests.			
☐ Catch bugs early.				
Drive the design of the program.				
Replace specifications by tests.				
		[2 marks]		

Obta		QUESTION 27	
300	510	What can be derived from the published experimental studies measuring productivity of pair programming vs. "traditional" programming?	
	There	e is no significant evidence in favor of one approach or the other.	
	There	e is significant evidence in favor of the traditional approach.	
	There	e is significant evidence in favor of pair programming.	
	None	of the above.	
		[2 marks]	
Obta	ined	QUESTION 28	
sco	ore	What does XP mean by "Maintain a single code base"?	
_			
	Avoi	d branching, even if permitted by the configuration management system.	
	Allov	v branching and merging only at predefined milestones in the project.	
_	Avoi	d merging, even if permitted by the configuration management system.	
	The code base should be stored on a single server.  [2 marks]		
Obta	ined	QUESTION 29:	
sco	ore	Which of the following responsibilities are assigned to the tracker according to Scrum and XP methods? Check all that apply.	
	To m	easure velocity.	
		y day or two, the tracker asks each developer how many tasks he has completed.	
Selects iteration goal and work results.			
	Keep	s track of the schedule.	
		[2 marks]	
Obta	ined	QUESTION 30:	
sco	ore	What is the Agile Manifesto?	
_			
		cument signed by a group of software consultants designed to attract the software world's to 12 principles of "good" software development.	

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□ A par developm		orld's attention to 24 principles of "good" software
	to some design patterns that proved to be §	sultants designed to attract the software world's good in the previous 12 years of software
□ A par developm	_	orld's attention to 12 examples of "bad" software
ac velopili	ciit.	[2 marks]
		[Total 60 marks]