

Beijing-Dublin International College



SEMESTER I FINAL EXAMINATION - 2016/2017

School of Computer Science & Informatics

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.

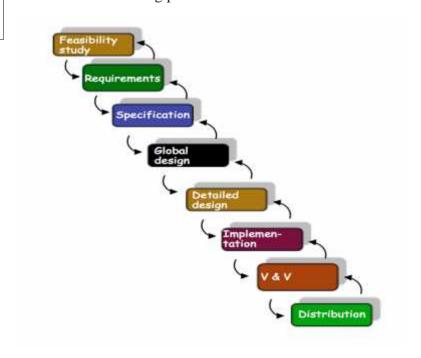
BJUT Student ID:	UCD Student ID:
I have read and clearly understand	the Examination Rules of both Beijing University of
Technology and University College D	Oublin. I am aware of the Punishment for Violating the
Rules of Beijing University of Tech	nnology and/or University College Dublin. I hereby
promise to abide by the relevant rule	es and regulations by not giving or receiving any help
during the exam. If caught violating the	he rules, I accept the punishment thereof.
Honesty Pledge:	(Signature)

Instructions for Invigilators

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

QUESTION 1

Consider the following picture:



Which of the following approaches proposes a project lifecycle model similar to the one shown in the picture?

- Scrum.
- Waterfall.
- S XP.
- Lean.
- Crystal.

[2 marks]

Obtained score

QUESTION 2

Which of the following are typical responsibilities of the Scrum Master? Check all that apply.

- Shield the team from external interferences.
- Remove impediments.
- Enforce process: daily meeting, planning meeting, review meetings.
- Decide on the priority of the features

[2 marks]

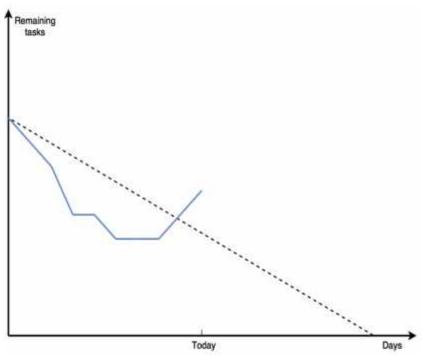
[2 marks]

Obtained	QUESTION 3
score	What is a user story according to Scrum?
C A spe	ecification of what does a user wants and why.
Some	ething a user wants.
A col	lection of pictures expressing the customer's needs.
An in	formal chat between the customer and the developers about what the system should do. [2 marks]
Obtained	QUESTION 4
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 tend to change over time, becoming invalid.
	stories are to requirements what tests are to specifications: just examples.
User	stories may misrepresent the abstraction they are supposed to describe. [2 marks]
Obtained	QUESTION 5
score	Which of the following are considered traditional manager responsibilities? Check all that
	apply.
Provi	de an interface with the customer.
Provi	de an interface with higher management.
	ew developers' code.
Provi	de diagrams (for example, UML diagrams) of the software system. [2 marks]
Obtobal	QUESTION 6
Obtained score	
	What do agile methods suggest to maintain a sustainable pace? Check all that apply.
No ox	vertime.
process.	e code as little as possible.
_	tant refactoring.
process.	sure that a project has enough developers.

Obtained	QUESTION 7
score	Who are the "pigs" in a Scrum meeting?
People Core The S	customers. le not truly committed to the project, who will give an opinion if asked to do so. participants to the project, allowed to participate actively in the meeting. Scrum master and the Product owner. [2 marks] QUESTION 8
Obtained score	Which of the following numbers can be used to measure progress in a software project according to Scrum?
Num Num	city in story points. ber of passing tests. ber of failing tests. ber of overtime hours worked by the team. [2 marks]
Obtained	QUESTION 9
score	What happens during a review meeting in Scrum? Check all that apply.
The t	eam members discuss both the completed and non-completed work with the customer. eam members demonstrate both the completed and non-completed work to the customer. eam members demonstrate the completed work to the customer. eam members answer the question: "What could be improved?" [2 marks]
Obtained	QUESTION 10
score	In pair programming the two developers should be of approximately the same level of competence.
True False	[2 marks]

Obtained	QUESTION 11
score	Which of the following ordered lists of activities represents XP's view on incremental design?
	design:
incremen	find suitable abstractions, then create a design from those abstractions, and finally tally add to the previous design.
future ext	create the simplest design that could possibly work, then find suitable abstractions including tensions, and finally incrementally add to the previous design.
First of improving	create the simplest design that could possibly work, then incrementally add to it, while g it at every iteration.
	find suitable abstractions, then create a design including future extensions, and finally tally add to the previous design.
	[2 marks]
Obtained	QUESTION 12
score	What is a "bullpen" according to XP terminology?
An an issue	rtifact representing the room in which developers meet other developers to discuss technical es.
An ar work	tifact representing the room, organized as an open space, in which all the team is supposed to
An ar	tifact helping to measure how many hours each developer worked in a software project.
An ar	tifact representing the room in which developers meet managers for face-to-face meetings. [2 marks]
Obtained	QUESTION 13
score	Which of the following items can be found in an agile project's "open workspace"?
process and the same of the sa	board with user story cards movable from "not started" to "in progress" to "done" columns.
-	ion burndown charts.
Serve	r room. [2 marks]
Obtained	QUESTION 14
score	Which of the following tasks are typically assigned to an embedded customer in an XP project? Check all that apply.

	BDIC	Semester One	Academic Year (2016 – 2017)
Help	developers to write tests.		
	ystem early to provide feedback.		
	write user stories to allow time est	imation and priority assign	ment.
Organ	nize a daily meeting.		
			[2 marks]
Obtained	QUESTION 15		
score	How would you characterize a u	ser story as opposed to a us	e case? Check all that apply.
_			
A use	er story is typically more complex	than a use case.	
A use	er story is typically more complete	and accurate than a use cas	e.
A use	er story is typically less complex th	an a use case.	
A use	er story typically does not handle e	xceptional cases, while a us	se case does.
			[2
	OFFECTION 14		[2 marks]
Obtained	QUESTION 16		
score	Which of the following characte methodology? Check all that ap		klog artifact according to Scrum
		•	
0,000	able and editable by anyone.		
process.	ed by the Scrum master.		
	ains backlog items: descriptions of	all notential features, prior	itized by business value
process of the same of the sam	des estimates of development effo.		tazed by business variet.
22224		.,	[2 marks]
Obtained	QUESTION 17		
score	Consider the following burndow	n chart	
	consider the following buildow	11 V1161 to	



Which of the following statements about the chart interpretation is correct?

- As of today, the project velocity is worse than expected.
- As of today, the project velocity is better than expected.
- As of today, the project velocity is exactly as expected.

[2 marks]

Obtained score

QUESTION 18

You are the (non-technical) scrum master of an agile software development team. During the last retrospective meeting, the development team raised an issue they are having with the product owner, who is in their opinion too strict in rejecting their work results. What would you do?

- After the meeting I would privately talk to the product owner, find a solution, and propose the solution to the development team during the next daily meeting.
- During the meeting I would encourage the development team and the product owner to find their own solution to the problem, making myself available in case they need my help.
- During the meeting I would side with the development team and support them.
- During the meeting I would side with the product owner and support him or her.

[2 marks]

Obtained score

QUESTION 19

Which of the following agile practices are "hype" in the course's analysis? Check all that apply.

- Dismissal of traditional manager tasks.
- Planning poker.
- Open space working arrangements.

	BDIC	Semester One	Academic Year (2016 – 2017)
Pair r	programming.		
	edded customer.		
			[2 marks]
Obtained	QUESTION 20		
score	Which of the following agile apply.	practices are "good" in the co	ourse's analysis? Check all that
	пррту.		
Test-	first development.		
Cons	tant test regression analysis.		
Produ	act burndown chart.		
Branc	ching.		
	-		[2 marks]
Obtained	QUESTION 21		
score	Which of the following agile	practices are identified as tru	ly "brilliant" in the course? Check
	all that apply.		
Test-	driven development.		
Short	iterations.		
	nuous integration.		
No bi	ranching.		[2 monks]
	OHESTION 22		[2 marks]
Obtained	QUESTION 22		
score	Why does the course warn ag	ainst using tests as a replacer	ment for specifications?
6			
_	use they are typically incomplet		
	use they are written by develope	-	
~	use they are too general, lacking		s opposed to specifications, which
	results in all cases.	resurts in marvidual cases, a	s opposed to specifications, which
			[2 marks]
Obtained	QUESTION 23		
score	Which of the following states	nents about agile processes a	are true? Check all that apply.
	which of the following states	nents about agric processes t	are true. Oncek un that appriy.
Acco	rding to the XP method, docume	entation and code should be	of primary importance
	rding to the XP method, program		

	BDIC	Semester One	Academic Year (2016 – 2017)
"waste	rding to the Lean Software methode" (such as detailed documentation) mers (e.g. code).		
The I	Lean Software method was first app	olied in the construction industry.	[2 marks]
Obtained	QUESTION 24		
score	Which of the following question Check all that apply.	s should a participant to a scrum o	f scrums meeting answer?
What	will your team do before we meet	again?	
Are y	ou about to put something in anoth	ner team's way?	
What	did your team do since we last me	t?	
Is any	ything slowing your team down?		[2 marks]
Obtained	QUESTION 25		
score	Which of the following is the sugteam?	ggested list of meetings that should	d take place in a Scrum
© Daily	meeting, requirements meeting, do	esign meeting, sprint meeting.	
Daily	meeting, planning meeting, review	v meeting, design meeting.	
_	meeting, planning meeting, retros		
Daily	meeting, planning meeting, sprint	meeting, review meeting.	[2 marks]
Obtained	QUESTION 26		
score	What is the multiple design appr	oach suggested by the Lean metho	od about?
C Assig	gning the same problem to different	teams, sequentially.	
-	ning the same problem to different		
-	ning different problems to differen		
Ass1g	ning different problems to differer	it teams, in parallel.	
			[2 marks]
Obtained	QUESTION 27		
score	Which of the following are constall that apply.	dered developers' responsibilities	in XP and Scrum? Check

	BDIC	Semester One	Academic Year (2016 – 2017)
Imple	ement only what is necessary.		
	de precise user stories, enabling nates.	users to produce comprehen	sive task cards and accurate
Estim	nate work for each story.		
Ident	ify risky features and report then	n to the customer.	[2 marks]
Obtained	QUESTION 28		
score	The Lean approach has an enconstitute waste according to		e". Which of the following items
-	cts not caught by tests and review	WS.	
	g overtime.		
	omer waiting.		
Desig	gn documents.		
Г	1		[2 marks]
Obtained	QUESTION 29		
score	Which of the following are co apply.	nsidered customers' responsi	bilities in XP? Check all that
Work	within the team, provide guidanible.	nce and receive feedback as o	quickly and accurately as
	de precise stories, enabling devenates.	elopers to produce compreher	nsive task cards and accurate
Analy	yze risk correctly, weighing stor	ies against each other.	
Assig	gn tasks to the development team	ı .	
	•		[2 marks]
Obtained	QUESTION 30:		
score	_	come available, a process wh	backlogged user stories one after ich assumes that there are few or
E41	oleo of this organia, constituints	· · · · · · · · · · · · · · · · · · ·	

For the sake of this example, consider these four user stories:

- 1. As a customer, I want to talk via telephone to one of the company's salespersons when I am interested in buying one of the company's products.
- 2. As a customer, I want to be asked if I am satisfied with the quality of a product I have purchased from the company.

3. As a customer, I want to use my laptop to chat with the company's technical support when I have issues using one of the company's products.

4. As a salesperson, I want to be able to activate my personal voice mail at any time on my company's cell phone.

Which of the following scheduling of user story implementations is possible? Check all that apply.

1, 2, 3, 4

1, 3, 2, 4

4, 2, 3, 1

4, 3, 2, 1

No order is possible because of mutual interdependencies between stories.

[2 marks]

[Total 60 marks]