

UNIVERSITY OF COLOMBO, SRI LANKA



UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING

DEGREE OF BACHELOR OF INFORMATION TECHNOLOGY (EXTERNAL)

Academic Year 2014/2015 - 2nd Year Examination - Semester 4

IT4305: Rapid Software Development Part 2: Structured Question Paper

2nd of August, 2015 (ONE HOUR)

To be completed by the candidate	
BIT Examination Index No:	

Important Instructions:

- The duration of the paper is **1 (one) hour**.
- The medium of instruction and questions is English.
- This paper has 3 questions and 9 pages.
- **Answer all questions.** First and second question carry 30 marks each and the third question carries 40 marks.
- Write your answers in English using the space provided in this question paper.
- Do not tear off any part of this answer book.
- Under no circumstances may this book, used or unused, be removed from the examination hall by a candidate.
- Note that questions appear on both sides of the paper.
 If a page is not printed, please inform the supervisor immediately.

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Indicate by a cross (x), (e.g. X)) the numbers of the questions answered.

To be completed by the candidate by marking a cross (x).	1	2	3	
To be completed by the examiners:				

(a) What				No	
(a) What	is the main differ	rence between A	gile Testing and Tr	raditional testing?	(6 Mark
ANS	WER IN THI	S BOX			
		· <u> </u>		·	
(b) List do	own four (04) gu	iding values of A	Agile Manifesto.		l testing? (6 Marks) (8 Marks
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	(a) What is the main difference between ANSWER IN THIS BOX (b) List down four (04) guiding values ANSWER IN THIS BOX (c) What is the primary purpose of development?		alue stream mapp	ing' as used in	
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(d) At the beginning of the 5th iteration of a project, a new requirement was introduced to support a new type of browser. The tester realizes that the existing test automation framework and scripts will not support the new type of browser. (14 Marks)

Here are three procedures that the tester can follow.

- I. The tester will notify the team of the issue. A risk analysis is done and the team decides that regression testing must be performed on the new type of browser in addition to the other supported browsers. The tester will update the sprint plan by adding tasks to modify the framework and scripts to support the new type of browser.
- II. The tester does some research and concludes that the risk that any new defects would be introduced in the new type of browser that have not already been found in other supported browser is very low. The tester continues with the existing sprint plan and makes no changes to test automation framework or scripts.
- III. The tester will stop what he is doing, design specific tests for compatibility testing of the new type of browser and communicate with the team that any other testing work for the sprint will have to be pushed to the next iteration.

What is the best course of action for the tester on this team to take? Justify the reason for you to select that option and to reject the other two options.

ANSWER IN THIS BOX

	an ICT solutions provider, caing the waterfall method who		the world. Until rec
	ough a major revision in the in to SCRUM as the softwar		
	five (05) reasons, why code logy over their current pract		M as the software de
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	oortant artefact of SCRUM is he help of a diagram	the product backlog. Ex	
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is with t		the product backlog. Ex	plain what the produ (7 Marks)
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i	i. List any three (3) other artefacts of scrum in addition to the product backlog. (3 Ma
Δ	ANSWER IN THIS BOX

Product owner is an important n there are some projects that have a product owner team.	nember of any SCRUM team. However, it is known a team of the product owner. Explain why a product n (5 Marks)
a product owner team.	(C ITALIAS)
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ANSWER IN	THIS BOX	

(a) Write down five (05) practices of Extreme Programming (XP) and describe each by a single sentence. (1 *5 + 2 * 5=15 Marks)

(3)

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Practice	Description	

			g, it attempts to prevent by using 2 practices in XP. (6 Marl	
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