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## THE OPEN UNIVERSITY OF SRI LANKA DEPARTMENT OF COMPUTER SCIENCE B.Sc. DEGREE PROGRAMME 2016/2017

B.Sc. DEGREE PROGRAMME 2016/2017

CPU2140: SYSTEM ANALYSIS AND SOFTWARE ENGINEERING

NO BOOK TEST: 01

DURATION: ONE HOUR ONLY (1 HOUR)	Reg. No:
Date: 23 <sup>rd</sup> September 2017	Time: 10.30am - 11.30am.

Answer ALL Questions.

Write the answers on the question paper itself.

Indicate the accuracy of the following statements in the cage given in front of each statement. Write the letter "T" for correct statements and "F" for wrong statements. If the given statement is false give your justifications.

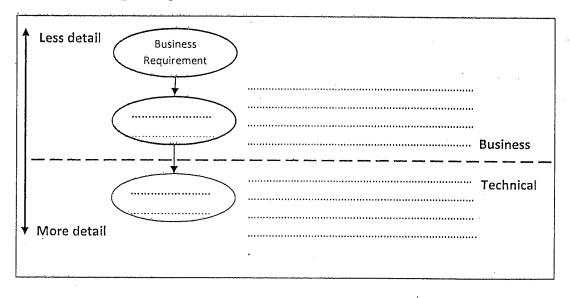
1.	Software engineering is an engineering methodology focusing on developing high	
	quality software systems cost effectively.	
2.	Software is only a computer programme.	<u> </u>
3.	For customized products, the specification is developed and controlled by the	
	developing organization.	=
4.	The correct order of the software development process activities are; software	<u> </u>
	evolution, software specification, software validation and software development.	
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5.	Systems evolution cost is higher than the system development cost in the "long	
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	time systems".	
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6	time systems".	
6.	The system is a usable one if the software does not waste system resource like	
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	The system is a usable one if the software does not waste system resource like memory.	
	The system is a usable one if the software does not waste system resource like memory.  The challenges faced by software engineering are; intellectually property rights and	
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7.	The system is a usable one if the software does not waste system resource like memory.  The challenges faced by software engineering are; intellectually property rights and computer misuse	
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<ol><li>A critical systems f failures.</li></ol>	ailure may occur in	the hardware, software and	operational
10. Four dimensions of security	f dependability are;	maintainability, efficiency,	safety and
			A Company of the Comp

Identify the most suitable software process model for each description given below. (Waterfall model, Rational Unified Process, Incremental model, Evolutionary development model, Spiral model, Exploratory development)

Description	Model
11. Specification, design, and implementation problems are often discovered only after implementation.	
12. Whole system is not delivered at all, though they have the full system specification with them. They deliver a part of the system at once.	
13. Risks are specifically recognized	
14. Specification, design and implementation are integrated	
15. System development is started with well understood parts of the requirements and with evolution new features are added/suggested by the customer.	`
16. Dynamic perspectives, static perspectives and practice perspectives are considered.	

17. Fill the blanks given in each circle using appropriate words. Write the explanations of them in the given space.



Why?	ask dependencies as much as possible in the schedules
19. List the activities to be done in the risk	management process
requirement.	into functional requirement and non-functional
	ever a certain condition is met
21. Requirement validation is an activity	of the requirement engineering process. Name three out in the activity of requirement validation.
•	
<ol> <li>We can develop different models to sho perspectives and their objectives in the t</li> </ol>	ow the system from different perspectives. Write three table given below.
Perspective	Objective
· ·	
23. "Risk decomposition" is a step that specification. Name a technique for Risk	has to be carried out in developing a risk driven k decomposition.
· ·	
24. Name two (02) reliability matrices.	
مجيور مرضاية و	
25. Name the two (02) generic control styles	
***ALL RI	GHT RESERVED***