PRINCE OF SONGKLA UNIVERSITY FACULTY OF ENGINEERING

Academic Year: 2005

Final Examination: Semester II

Date: 24 February 2006		Time: 9.00 - 11.00	
Subject : 217-452	Real-time Software	Room : R300	
Attempt all question	is.		
1. Detail			
(a) the role of diagrams in software development.			(4)
(b) the basic diagram types used in your Modbus device class assignment.			(6)
2.			
(a) Describe the ι	use of UML in the Modbus de	vice class assignment for,	
requirem	nents analysis		(1)
design			(1)
impleme	entation		(1)
• testing, i	ntegration and debugging		(1)
maintena	ance		(1)
(b) How does documentation supports the various phases of the software life cycle? (5)			(5)
3. In the Modbus o	device class assignment, sho	ow the need for and use of the follow	ing software
development tools:			
Software	debuggers		(5)
Hardware	e debuggers		(5)

- 4. In your Modbus device class assignment,
 - (a) Explain the underlying concepts of your software testing.

(5)

(b) Explain your static and dynamic testing.

(5)

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