No.: Name:		
Computer Science Homework for Chapter 7 Due: 2010/5/19	9. In the following table, connect the term to each phrase that gives the best description of the term. (40%)	
1. The Pareto principle is traditionally applied during which phase of software development?	Term	Descriptive Phrase
A. Analysis B. Design C. Implementation D. Testing	glass-box testing	<ul><li>A. A means of quantifying</li><li>B. Develop, use, modify</li></ul>
2. Which of the following is the method proposed by UML for representing sequences	component architecture	<ul><li>C. An older, rather rigid approach to software develop</li><li>D. An approach to software development in which par</li></ul>
	analysis	systems are constructed <b>E</b> A means of constructing software from prefabricate
A. Class diagramB. Use case diagramC. Collaboration diagramD. Generalization	software life cycle	F. A means of representing procedural dependencies
3. Which of the following is a means of controlling the complexity of a software	case use diagram	<ul><li>G. The "glue" that holds a module together</li><li>H. A diagram representing communication between ob</li></ul>
system?	global data	I. A diagram representing communication between a and its users
A. CRC cards B. Modularity C. Specifications D. Beta testing	modularity	J. A standard notational system for representing object-oriented designs
4. Which of the following software engineering methodologies is the most rigid?	structured walkthrough	K. A means of implementing implicit coupling
A. Incremental modelB. Waterfall modelC. Extreme programmingD. Evolutionary prototyping	cohesion	L. A means of managing complexity within a large so system
5. Copyright laws were established	metric	<b>M.</b> A means of testing a design before it is implemente
A. to allow authors to distribute their work while maintaining certain ownership rights.	structure chart	<ul> <li>N. Allows potential users to experiment with preliminative versions of software</li> <li>Confirms that the internal structure of a coffusion of a software</li> </ul>
B. to allow authors to maintain ownership of their ideas. C. to restrict access to publications to certain groups within society.	prototyping	reliable
D. to allow ideas to be traced back to their origins.	specifications	P. A somewhat renegade methodology for software development
-8. In each case below indicate whether the activity relates to glass-box testing or black-box esting	waterfall model	<b>Q.</b> The beginning of the software development phase
6. Testing to see if the system performs in a timely manner	open-source development	<ul><li>R. System requirements translated into technical conte</li><li>S. A central warehouse of information regarding data</li></ul>
A. glass-box testing B. black-box testing	UML	throughout a system T. General to specific (as opposed to specific to generate
7.Designing test data to ensure that each instruction is executed at least once	top-down	
A. glass-box testing B. black-box testing	data dictionary	
8. Testing to see if the software system meets the requirements identified during original analysis	collaboration diagram	
A. glass-box testing B. black-box testing	Beta testing	

**Descriptive Phrase A.** A means of quantifying **B.** Develop, use, modify **C.** An older, rather rigid approach to software development **D.** An approach to software development in which partial systems are constructed **E.** A means of constructing software from prefabricated units **F.** A means of representing procedural dependencies **G.** The "glue" that holds a module together **H.** A diagram representing communication between objects I. A diagram representing communication between a system and its users **J.** A standard notational system for representing object-oriented designs **K.** A means of implementing implicit coupling **L.** A means of managing complexity within a large software system M. A means of testing a design before it is implemented N. Allows potential users to experiment with preliminary versions of software **O.** Confirms that the internal structure of a software system is reliable **P.** A somewhat renegade methodology for software development **Q.** The beginning of the software development phase **R.** System requirements translated into technical context S. A central warehouse of information regarding data throughout a system **T.** General to specific (as opposed to specific to general)