SD2799 Software Development Capstone Project Final Exam

FINAL EXAM QUESTIONS

 Define the following concert 	ots
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- Data redundancy
- First normal form
- Second normal form
- Third normal form

Explain the above concepts using the following terms:

- Primary keys
- Candidate keys
- Functional dependencies
- Transitive dependencies

Provide an illustrative examp	le of each.	

have used in your own program code and how the use of these objects helped promote coreuse.	Define public, protected, and private inheritance. Provide examples of software objects yo
reuse.	have used in your own program code and how the use of these objects helped promote co
	reuse.

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3.

efine the term "Activity	- p P	

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4.	Define and contrast the following terms:	
	Control structure	
	• Sequence	
	Multiple-alternative decision structure	
	Counter-controlled loops	
	Conditional loops	

Explain h	ow data is a	added and	removed	I from a lis	st fragmei	nt.	
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6.	What are the stages of the Software Development Lifecycle (SDLC)? Define each stage.
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What is software	e versioning and	how is it used in sof	tware development?	

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What are the significant differences and similarities among high-level compiled, high-level interpreted, and low-level programs?

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11.	What are the strengths and weaknesses of using the following approaches to software
	development?

- Waterfall
- Incremental Development
- Rapid Application Development

Under what circumstances would each approach prove more effective?					

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	Compare and contrast public inheritance, protected inheritance, and private inheritance. Un								
what cond	ditions w	ould you u	se one o	ver the o	ther?				

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15	Value have been contracted to revise and enhance the performance of a company's Web based
13.	You have been contracted to revise and enhance the performance of a company's Web-based application. The application consists of a traditional client/server application. The response time
	of the application is somewhat slow, and your task is to speed it up. What design changes could
	you make to the application?

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16.	A junior programmer in your department comes to you with a problem with a Java applet he ha
	been designing to transfer files from a client's machine to some other machine and vice versa.
	The file data copies from the client's machine successfully, but it does not get written to the
	client user's machine. What is the problem?
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17	. Your company's software design team is looking to revise a program that conducts data
	backups. Currently, the data to be backed up is stored in an array format, but it seems to waste
	a lot of space when data is deleted. Because of limited disk space, implementing a database
	solution would not be feasible. What alternatives can you suggest?

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19.	You have been tasked to write a utility class to perform a critical safety check for a unique hydraulic press. What measures can you take in the design of your class to ensure that no programmers in the future make derivative classes from your utility class, which could lead to the unintentional misapplication of your original code?					

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(End of Quizzes and Exams)