

**CS504 MID 27May2010**

**MIDTERM EXAMINATION  
Spring 2010  
CS504- Software Engineering - I (Session - 6)**

**Time: 60 min  
Marks: 38**

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**Question No: 1 ( Marks: 1 ) - Please choose one**

By following modern system engineering practices simulation of reactive systems is no longer necessary

- ▶ True
- ▶ **False**

**Question No: 2 ( Marks: 1 ) - Please choose one**

The state transition diagram

- ▶ depicts relationships between data objects
- ▶ depicts functions that transform the data flow
- ▶ **indicates how data are transformed by the system**
- ▶ indicates system reactions to external events

**Question No: 3 ( Marks: 1 ) - Please choose one**

Control flow diagrams are

- ▶ needed to model event driven systems.
- ▶ required for all systems
- ▶ used in place of data flow diagrams
- ▶ **useful for modeling user interfaces**

**Question No: 4 ( Marks: 1 ) - Please choose one**

A change becomes ----- because of close presence of data and functions

- ▶ **Localized**
- ▶ Private
- ▶ Global
- ▶ Accessible

**Question No: 5 ( Marks: 1 ) - Please choose one**

A complex System evolves from a

- ▶ **smaller system**
- ▶ medium sysetem
- ▶ bigger system
- ▶ non of the given

**Question No: 6 ( Marks: 1 ) - Please choose one**

Coupling is a measure of -----of a module or component.

- ▶ **Independent**
- ▶ Dependent
- ▶ Closeness
- ▶ All of the given

**Question No: 7 ( Marks: 1 ) - Please choose one**

Software Maintenance phase involves

- ▶ **Debugging**
- ▶ Adding new features
- ▶ making changes
- ▶ all of the given

**Question No: 8 ( Marks: 1 ) - Please choose one**

*The hardest single part of building a software system is deciding precisely ----- to build.*

- ▶ **what**
- ▶ How
- ▶ When
- ▶ Why

**Question No: 9 ( Marks: 1 ) - Please choose one**

Interaction Diagrams depict the ----- Behavior of the system

- ▶ Static
- ▶ **Dynamic**
- ▶ Active
- ▶ Non of the above

**Question No: 10 ( Marks: 1 ) - Please choose one**

In Sequence Diagrams the time required by the receiver object to process the message is denoted by an-----

- ▶ **Activation Box**
- ▶ Simple Box
- ▶ Arrow
- ▶ Non of the above

**Question No: 11 ( Marks: 1 ) - Please choose one**

A poorly designed interface can cause a user to make catastrophic errors is one of the motivations for GUI.

- ▶ **True**
- ▶ False

**Question No: 12 ( Marks: 1 ) - Please choose one**

Identifying System Features include -----

- ▶ log important information
- ▶ conduct business
- ▶ analyze business results

▶ **all of the above**

**Question No: 13 ( Marks: 1 ) - Please choose one**

Establishing responsibilities for objects includes

- ▶ Generalization Relationships
- ▶ Specialization Relationships
- ▶ **all of the above**
- ▶ identifying Association relationships

**Question No: 14 ( Marks: 1 ) - Please choose one**

Which of the following is a fact finding method?

- ▶ Site visits
- ▶ **Prototyping**
- ▶ Study of similar systems
- ▶ All of given

**Question No: 15 ( Marks: 1 ) - Please choose one**

Windows mobile is a popular mobile operating system which seen commonly on PDAs. Which of the following category pair(s) best describe(s) it?

- ▶ **application software, embedded software**
- ▶ system software, web-based software
- ▶ application software, scientific software
- ▶ system software, embedded software

**Question No: 16 ( Marks: 1 ) - Please choose one**

The Object Oriented approach

- ▶ **improves the reusability of codes.**
- ▶ makes objects less independent.
- ▶ increases testing time.
- ▶ complicates mapping of a system model to an implementation model.

**Question No: 17 ( Marks: 2 )**

Define abstraction ?

**Question No: 18 ( Marks: 2 )**

Is the design of software architecture a creative process?

**Question No: 19 ( Marks: 2 )**

Suppose you are working as a software engineer involved in the development of an e-commerce website.

What are the 2 most important characteristics your software must have?

**Question No: 20 ( Marks: 3 )**

What is the purpose of collaboration diagrams?

**Question No: 21 ( Marks: 3 )**

What is the difference between Aggregation and Association?

**Question No: 22 ( Marks: 5 )**

what parameters are used to measure and analyze design quality?

**Question No: 23 ( Marks: 5 )**

How the objects are identified in Peter codd's technique?

**Another Paper:-**

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1. How can we decrease coupling? Explain it. 03 marks
2. What is meant by “system’s static View”? Discuss briefly. 05 marks
3. How the objects are identified in peter codd’s technique? 05marks
4. What is the purpose of interaction diagram? 03marks
5. Define cohesion. 02marks
6. Keeping connie’s case study in mind, as discussed in lecture, list down whole parts structures which were identified. 02marks
7. Define data flow diagram 02marks
8. 16 MCQs 01mark each

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