

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

Time: 60 min

Marks: 38

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?