



CS504-Software Engineering -1
LATEST SOLVED MCQS FROM
MIDTERM PAPERS

Nov 12,2011

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Latest Mcqs

CS504-MIDTERM SOLVED MCQS WITH REFERENCES



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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** [click here for detail](#)

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** [click here for detail](#)

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

Control flow diagrams are

- ▶ **needed to model event driven systems.** [Click here for detail](#)
- ▶ 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** (page 81)
- ▶ Private
- ▶ Global
- ▶ Accessible

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

A complex System evolves from a

- ▶ **smaller system** page 83 [click here for detail](#)
- ▶ medium sysetem
- ▶ bigger system
- ▶ non of the given

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

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

- ▶ **Independent** (Page 71)
- ▶ 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** [click here for detail](#)

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

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

- ▶ **what** (Page 17)
- ▶ How
- ▶ When
- ▶ Why

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

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

- ▶ Static
- ▶ **Dynamic** (Page 106)
- ▶ 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** (Page 108)
- ▶ 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** (Page 62)
- ▶ False

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Question No: 12 (Marks: 1) - Please choose one
Identifying System Features include -----

- ▶ log important information
- ▶ conduct business
- ▶ analyze business results
- ▶ **all of the above (Page 98)**

Question No: 13 (Marks: 1) - Please choose one
Establishing responsibilities for objects includes

- ▶ Generalization Relationships
- ▶ Specialization Relationships
- ▶ **all of the above (Page 86)**
- ▶ 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

Seven common fact-finding methods (Sampling, Research, Observation, Questionnaires, Interviews, Prototyping, Joint Requirements Planning) are introduced as a means to discover requirements.

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. (Page 83)**
- ▶ makes objects less independent.
- ▶ increases testing time.
- ▶ complicates mapping of a system model to an implementation model.

The object-oriented approach improves the maintainability, reusability, and extensibility of the software [Click here for Detail](#)

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

Most software continues to be custom built because

- ▶ Software is easier to build without using someone else's components.
- ▶ **Off the shelf software components are not commonly available** [Click here for detail](#)
- ▶ Component reuse is common in the software world
- ▶ Reusable components are too expensive to use

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

Which of the items listed below is not one of the software engineering layers?

- ▶ Tools
- ▶ Process
- ▶ **Manufacturing** [Click here for detail](#)
- ▶ Methods

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

Which of these people would not be likely to part of the FAST team?

- ▶ hardware and software engineers
- ▶ manufacturing representative
- ▶ marketing representatives
- ▶ **senior financial officers** **APRACTITIONER'S APPROACH (Page 305)**

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

An state transition can only occur when triggered by a(n)_____

- ▶ actor
- ▶ collaboration attempt
- ▶ **event**
- ▶ none of the given

The evolution of the system depends on a sequence of state transitions triggered by a set of coming events.

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

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

- ▶ **Localized (page 81)**
- ▶ Private
- ▶ Global
- ▶ Accessible

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

A process which does not take input is called

- ▶ **miracle process** **Miracle": Process has output, but no input** [Click here for detail](#)
- ▶ core process
- ▶ secondary process
- ▶ all of the above

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

Data Store notation in DFDs presents.

- ▶ Data input
- ▶ Data output
- ▶ **Data input and Data output** (Page 54)
- ▶ non of the given

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

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

- ▶ **Independent** (Page 71)
- ▶ Dependent
- ▶ Closeness
- ▶ All of the given

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

If a problem is identified and fixed at a -----stage in the software development process, it will cost much more than if it was fixed at and -----stage.

- ▶ eralier & lator
- ▶ after & before
- ▶ none of the above
- ▶ **later and earlier** (Page 17)

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

Once these requirements have been finalized, the ----- process starts.

- ▶ **Construction** (Page 18)
- ▶ Development
- ▶ Maintenance phase
- ▶ Construction and Development

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

Identifying Whole-Part structures (Aggregations) means what are my -----

- ▶ **Components** (Page 95)
- ▶ Structures
- ▶ Objecs
- ▶ Classes

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

Data design actually begins during the creation of the analysis model, not the architectural model.

- ▶ True [Click here for detail](#)
- ▶ False

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

System Architecture is important to consider because it helps in making -----

- ▶ Mutual communication.
- ▶ Early design decisions.
- ▶ Reusable abstraction of a system.
- ▶ All of the above (Page 118)

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

Software architecture is "the ----- of the components of a program/system, their interrelationships, and principles and guidelines governing their design and evolution over time."

- ▶ combination
- ▶ collection
- ▶ structure (Page 117)
- ▶ unification

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

Cohesion is about making sure each component does _____ thing and does it well.

- ▶ three
- ▶ two
- ▶ infinite
- ▶ one [Click here for detail](#)

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

Following are some statements associated with data flow diagrams. Identify the correct statement from among them.

- ▶ DFDs are used to model complex interfaces.
- ▶ DFDs are used to represent only functional processing, data stores and data movements between functions. [DFD over flow charts\(Page 2\)](#)
- ▶ DFDs depict only processes which can be decomposed.
- ▶ DFDs do not show external data sources and external data sinks

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

UML (unified modeling language) analysis modeling focuses on the _____ .

- ▶ behavioral model and environment model.
- ▶ behavioral model and implementation model.
- ▶ user model and environmental model
- ▶ **user model and structural model** A PRACTITIONER'S APPROACH (Page 604)

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

The data flow diagram must be augmented by descriptive text in order to describe the functional requirements for a software product.

- ▶ **True** [Click here for detail](#)
- ▶ False

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

It is not possible to use ordinary data flow diagrams to model the functional requirements of real-time systems.

- ▶ True
- ▶ **False** [Click here for detail](#)

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

An object or class may further be classified on the basis of

- ▶ Behavior Driven attributes
- ▶ Data Driven attributes
- ▶ Responsibility Driven attributes
- ▶ **All of the above** (Page 85)

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

A public Interface provides a way for _____ with other Classes.

- ▶ Communication
- ▶ **Accessibility** [Click here for detail](#)
- ▶ Reaching
- ▶ All of the above

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

DFD Notation contains

- ▶ Data Store
- ▶ Extenal Agents
- ▶ Processes
- ▶ **All of the given** (Page 51)

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

A complex System evolves from a

- ▶ **smaller system (Page 69)**
- ▶ medium sysetem
- ▶ bigger system
- ▶ non of the given

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

Requirement engineering mainly deals with the ----- of the system

- ▶ **definition phase (Page 16)**
- ▶ development phase
- ▶ maintenance
- ▶ non of the above

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

Insufficient user involvement leads to ----- products.

- ▶ **unacceptable (Page 19)**
- ▶ ambigious
- ▶ dissatisfaction of customer to
- ▶ non of the above

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

Which one is not the purpose of Interaction Diagrams ?

- ▶ Model interactions between objects
- ▶ Assist in understanding how a system (a use case) actually works
- ▶ Identify responsibilities/operations and assign them to classes
- ▶ **Identify dependencies among objecs (Page 106)**

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

Collaboration diagrams have basically two types of components: objects and -----

- ▶ **messages (Page 111)**
- ▶ methods
- ▶ classes
- ▶ non of the above

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

The scope description establishes the -----between the system we are developing and everything else in the universe

- ▶ **Boundary (Page 31)**
- ▶ Balance
- ▶ Constraint
- ▶ None of the given

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

Which one is not a type of messages which Sequence Diagrams Depict

- ▶ Synchronous
- ▶ Asynchronous
- ▶ Create
- ▶ Update (Page 108)

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

What is the most crucial non-functional requirement of a system to control radiation dosages that are emitted as treatment for cancer?

- ▶ Security
- ▶ Reliability
- ▶ Usability
- ▶ Accuracy (not sure)

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

Given below are some statements associated with data flow diagrams. Identify the correct statement from among them.

- ▶ Data flow is made use of to model what systems do.
- ▶ Flows of data can take place from a process to a sink.
- ▶ All processes have to be levelled or decomposed.
- ▶ Context diagram shows the major system processes. (Page 54)

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

What would be the most suitable architecture to develop a commercial web page to do business transactions over the internet?

- ▶ Client server model (p129)
- ▶ Island model
- ▶ RAD model
- ▶ Repository model

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

The first step in any OOA process model is to _____

- ▶ build an object-relationship model (p90)
- ▶ define collaborations between objects
- ▶ elicit customer requirements
- ▶ select a representation language

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

Dynamic components of an OOA model are _____

- ▶ not reusable
- ▶ **sensitive to timing and event processing**
- ▶ stable throughout the operational life of an application
- ▶ structural in nature

Dynamic components:

Focus on control and are sensitive to timing and event processing.

Dynamic view of Communication,

Dynamic view of Control and Time.

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

Events occur whenever a(n)_____

- ▶ **actor and the OO system exchange information** **APRACTITIONER'S APPROACH (Page 622)**
- ▶ class operation is invoked
- ▶ messages are passed between objects
- ▶ all of the given

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

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

- ▶ True
- ▶ **False** [Click here for detail](#)

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

Information flow represents the manner in which data and control

- ▶ are related to one another.
- ▶ **changes as each moves through the system.** **APRACTITIONER'S APPROACH (Page 312)**
- ▶ will be implemented in the final design.
- ▶ none of the given

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

Which view should be consider first during software requirements analysis?

- ▶ actor view
- ▶ data view
- ▶ essential view
- ▶ **implementation view** **APRACTITIONER'S APPROACH (Page 316)**

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

State Transition Diagram is helpful in determining

- ▶ **Business Understanding (Page 52)**
- ▶ Process Flow
- ▶ Data store
- ▶ Non of the given

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

A better Design has an objective achieve

- ▶ High Cohesion
- ▶ Low Cohesion
- ▶ Low Coupling
- ▶ **High cohesion and Low coupling** **APRACTITIONER'S APPROACH (Page 316)**

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

The process of defining attributes is called

- ▶ **What I know (Page 95)**
- ▶ Who know me
- ▶ Whom I know
- ▶ Non of the above

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

Which of the following is not an objective for building an analysis model?

- ▶ define set of software requirements
- ▶ describe customer requirements
- ▶ **develop an abbreviated solution for the problem** **APRACTITIONER'S APPROACH (Page 329)**
- ▶ establish basis for software design

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

The output of this design process is a description of the

- ▶ **Software Architecture (Page 115)**
- ▶ Software Code
- ▶ Software
- ▶ Non of the above

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

Which of these characteristics are true of a data warehouse, but not a typical database?

- ▶ business level orientation and large size
- ▶ **currency and correctness of information** [Click here for detail](#)
- ▶ integration and non volatility
- ▶ all of the given

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

Identifying System Features include -----

- ▶ log important information
- ▶ conduct business
- ▶ analyze business results
- ▶ **all of the above (Page 98)**

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

The two main documents produced during this phase are Requirement Statement and Requirement Specification. They are also called Requirement Definition and -----

- ▶ **Functional Specification (Page 25)**
- ▶ Mathematical specification
- ▶ System Specification
- ▶ None of the given

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

Project ----- defines the concept and range of the proposed solution, and limitations identify certain capabilities that the product will not include

- ▶ **Scope (Page 30)**
- ▶ Agreement
- ▶ Plan
- ▶ None of the given

Question No: 16 (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 (not sure)**
- ▶ system software, web-based software
- ▶ application software, scientific software
- ▶ system software, embedded software

MIDTERM EXAMINATION 2010

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

Control flow diagrams are.

- ▶ **Needed to model event driven systems. [Click here for detail](#)**
- ▶ Required for all systems.
- ▶ Used in place of data flow diagrams.
- ▶ Useful for modeling user interfaces.

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

The Data dictionary contain description of each software.

- ▶ Configuration item.
- ▶ **Data object APRACTITIONER'S APPROACH (Page 356)**
- ▶ Diagram
- ▶ Notation

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

A cohesion class is one which emphasize -----unit of----

- ▶ Single and multiple.
- ▶ Multiple and functionality
- ▶ Functional and single
- ▶ **Single and functional (Page 72)**

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

Flow charts represent.

- ▶ **Sequence. (Page 50)**
- ▶ Random
- ▶ Parallel
- ▶ Non of above

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

----- gives OO the ability to handle essential

- ▶ **Decentralization (Page 80)**
- ▶ Centralization
- ▶ Decentralization and Centralization
- ▶ Non of above

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

In sequence Diagram events are organized in a-----time line

- ▶ **vertical (Page 106)**
- ▶ horizontal
- ▶ Vertical and Horizontal
- ▶ Non of above

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

Asynchronous messages are denoted

- ▶ **Half Arrow (Page 109)**
- ▶ Simple Line
- ▶ Full Arrow
- ▶ Non of above

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

Software crisis came in 1960 what is the main reason to for the crisis

- ▶ **Software development technique (Page 4)**
- ▶ Hardware

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- ▶ Software
- ▶ Non of above

Question No: 10 (Marks: 1) - Please choose one central role of the software requirement Document in entire development process is related to

- ▶ Project planning
- ▶ Project tracing
- ▶ Change control
- ▶ **All of above (Page 19)**

Question No: 11 (Marks: 1) - Please choose one The scope description establishes the ----- between the system we are developing and everything else in the universe. Project planning

- ▶ **Boundary (Page 31)**
- ▶ System
- ▶ limitation
- ▶ None of above

Question No: 12 (Marks: 1) - Please choose one which one is not the type of message which sequence diagram depict

- ▶ Synchronous
- ▶ asynchronous
- ▶ Create
- ▶ **Update (Page 108)**

Question No: 13 (Marks: 1) - Please choose one cohesion is about making sure each component does----- thing and does it well

- ▶ Three
- ▶ infinite
- ▶ **one APRACTITIONER'S APPROACH (Page 381)**
- ▶ two

Question No: 14 (Marks: 1) - Please choose one what is the most important software quality of a web based transaction

- ▶ efficiency
- ▶ Modularity
- ▶ **usability [click here for detail](#)**
- ▶ Security

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