<table>
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<tr>
<th>CS504-Softwere Engineering -1</th>
<th>Nov 12,2011</th>
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<tr>
<td>LATEST SOLVED MCQS FROM MIDTERM PAPERS</td>
<td>Latest Mcqs</td>
</tr>
<tr>
<td>MC100401285</td>
<td><a href="mailto:Moaaz.pk@gmail.com">Moaaz.pk@gmail.com</a></td>
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CS504-MIDTERM SOLVED MCQS WITH REFERENCES

Muhammad Moaaz Siddiq – MCS (2nd)
mc100401285@gmail.com
Campus:- Institute of E-Learning & Modern Studies (IEMS) Samundari
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 system
► 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  (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
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
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
► 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
► 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

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
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.
► earlier & later
► 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
► Obecs
► Classes
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
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  
APR A C T I T I O N E R ’ S A P P R O A C H (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  
► 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

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  
► 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)
Question No: 7 (Marks: 1) - Please choose one
A complex System evolves from a
► smaller system  (Page 69)
► medium system
► bigger system
► none 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
► none of the above

Question No: 9 (Marks: 1) - Please choose one
Insufficient user involvement leads to ---------- products.
► unacceptable  (Page 19)
► ambiguous
► dissatisfaction of customer to
► none 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 objects  (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
► none 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
<table>
<thead>
<tr>
<th>Question No: 13</th>
<th>(Marks: 1) - Please choose one</th>
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<tbody>
<tr>
<td>Which one is not a type of messages which Sequence Diagrams Depict</td>
<td></td>
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<tr>
<td>▶ Synchronous</td>
<td></td>
</tr>
<tr>
<td>▶ Asynchronous</td>
<td></td>
</tr>
<tr>
<td>▶ Create</td>
<td></td>
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<tr>
<td>▶ Update (Page 108)</td>
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<thead>
<tr>
<th>Question No: 14</th>
<th>(Marks: 1) - Please choose one</th>
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<tbody>
<tr>
<td>What is the most crucial non-functional requirement of a system to control radiation dosages that are emitted as treatment for cancer?</td>
<td></td>
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<tr>
<td>▶ Security</td>
<td></td>
</tr>
<tr>
<td>▶ Reliability</td>
<td></td>
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<tr>
<td>▶ Usability</td>
<td></td>
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<tr>
<td>▶ Accuracy (not sure)</td>
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<th>Question No: 15</th>
<th>(Marks: 1) - Please choose one</th>
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<tr>
<td>Given below are some statements associated with data flow diagrams. Identify the correct statement from among them.</td>
<td></td>
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<tr>
<td>▶ Data flow is made use of to model what systems do.</td>
<td></td>
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<tr>
<td>▶ Flows of data can take place from a process to a sink.</td>
<td></td>
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<tr>
<td>▶ All processes have to be levelled or decomposed.</td>
<td></td>
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<tr>
<td>▶ Context diagram shows the major system processes. (Page 54)</td>
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<th>Question No: 16</th>
<th>(Marks: 1) - Please choose one</th>
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<tr>
<td>What would be the most suitable architecture to develop a commercial web page to do business transactions over the internet?</td>
<td></td>
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<tr>
<td>▶ Client server model (p129)</td>
<td></td>
</tr>
<tr>
<td>▶ Island model</td>
<td></td>
</tr>
<tr>
<td>▶ RAD model</td>
<td></td>
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<tr>
<td>▶ Repository model</td>
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**MIDTERM EXAMINATION 2010**

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<thead>
<tr>
<th>Question No: 1</th>
<th>(Marks: 1) - Please choose one</th>
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<tbody>
<tr>
<td>The first step in any OOA process model is to ____________________________</td>
<td></td>
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<tr>
<td>▶ build an object-relationship model (p90)</td>
<td></td>
</tr>
<tr>
<td>▶ define collaborations between objects</td>
<td></td>
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<tr>
<td>▶ elicit customer requirements</td>
<td></td>
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<tr>
<td>▶ select a representation language</td>
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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
► 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 each moves through the system.
► 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

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
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  A P R A C T I T I O N E R ' S A P P R O A C H  (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  A P R A C T I T I O N E R ' S A P P R O A C H  (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)
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 been 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
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 massages 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
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 massage 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 A P R A C T I T I O N E R ' S A P P R O A C H (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