

CS504 GRAND QUIZ
MCS FAMILY GROUP TEAM
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- 1) Modules with high cohesion and low coupling can be treated and analysed as
 - i. White boxes
 - ii. **black boxes**
 - iii. grey boxes
 - iv. none of these
- 2) While establishing the services for an object, the following fundamental questions should be asked:
 - i) Why does the system need this object anyway?
 - ii) What useful questions can it answer?
 - iii) What useful action can it perform?
 - iv) **All of the given options.**
- 3) ----- is a role that each actor plays in the system under consideration.
 - i) An act
 - ii) **A participant**
 - iii) A function
 - iv) None of the given
- 4) Any Engineering approach must be founded on organizational commitment to -----.
 - i. Cost
 - ii. Scheduling
 - iii. **Quality**
 - iv. Performance
- 5) Return values in synchronous messages are:
 - i) Compulsory
 - ii) **May not used when response is obvious**
 - iii) Not used at all
 - iv) Represented by solid lines
- 6) According to Caper Jhones analysis of project activities, coding only has ----- affect part in system development.
 - i. **13-14%**
 - ii. 36-40%
 - iii. 50-60%
 - iv. 70-80%
- 7) Normally a system is more easy to modify if its modules have
 - i. High coupling and high cohesion
 - ii. High coupling and low cohesion
 - iii. **Low coupling and high cohesion**
 - iv. Low coupling and Low cohesion
- 8) In multi-threaded or multiprocessing applications where different execution threads may pass information to one another by sending -----to each other.

- i. Interrupt calls
 - ii. Synchronous messages
 - iii. Asynchronous messages
 - iv. System Calls
- 9) Which of the following is not among the four layers of the object-oriented pyramid?
- i. The subsystem layers
 - ii. The class and object layer
 - iii. The abstract layer
 - iv. The message layers
- 10) System models include:
- i. User business processes
 - ii. User activities for conducting the business process
 - iii. Processes that need to be automated
 - iv. All of the given options
- 11) In the architecture trade-off analysis method the architectural style should be described using the
- i. Data flow view
 - ii. Module view
 - iii. Process view
 - iv. All of the given
- 12) ----- is concerned with decomposing the system into interacting sub-systems.
- a) System structuring
 - b) Control Modelling
 - c) Molecular Decomposition
 - d) None of the given
- 13) A use case represents:
- i. A class, its attributes and operations
 - ii. An operation's interface and signature
 - iii. The role a user plays when interacting with the system
 - iv. The system's functionality for a particular purpose
- 14) External entity may be:
- i. Source of input data only
 - ii. Source of input data and destination of results
 - iii. Destination of results
 - iv. Repository of data
- 15) The process of utilizing our knowledge of computer science in effective production of -----.
- i. Chemical Engineering
 - ii. Electrical Engineering
 - iii. Computer Engineering
 - iv. System Engineering
- 16) Coupling is a measure of ----- of a component.
- i. Independence
 - ii. Dependence
 - iii. Aggregation
 - iv. Composition
- 17) ----- has become a standard notation for object-oriented system modelling:

- i. UML
 - ii. C++
 - iii. OCL(Object Constraint Language)
 - iv. None of the given option
- 18) An arrow in data flow diagram represents:
- i. Direction of flow of data
 - ii. Processing of data
 - iii. External agent
 - iv. Internal Agent
- 19) ----- diagrams does not capture control flow information, it just shows the flow of data in a system.
- i. Sequence
 - ii. Data Flow
 - iii. Activity
 - iv. Class
- 20) In ----- the analyst determines the source of requirements and where do these requirements consume:
- a) Data flow analysis
 - b) Source and sink analysis
 - c) Down parsing
 - d) Up parsing
- 21) Data cannot flow from one external entity to other external entity because:
- a) It will get corrupted
 - b) It is not allowed in DFD
 - c) An external entity has no mechanism to read or write
 - d) Both are outside the context of the system
- 22) In the functional design, the structure of the system resolves around:
- a) Objects
 - b) Properties
 - c) Functions
 - d) All of the given options
- 23) ----- is one of the techniques to document domain knowledge
- a) State transition diagram
 - b) Feasibility matrix
 - c) System matrix
 - d) None of the given options
- 24) In case of ----- approach , decomposition of a problem revolves around data.
- a) Object-Oriented
 - b) Action-Oriented
 - c) Event-Oriented
 - d) Process-Oriented
- 25) The ----- relationship is a kind of a generalization specialization relationship:
- a) Bit-Byte
 - b) Uses
 - c) Binary
 - d) Extends
- 26) Which statement is not true about system software?

- a) Change request has direct impact on software
 - b) Passes through a constant process of evolution
 - c) Change requests have direct impact in the form of defects
 - d) None of the given
- 27) Strong cohesion implies that:
- a) All parts of a component have a close logical relationship with each other
 - b) All parts of a component don't have a close relationship with each other
 - c) Component is dynamic in nature
 - d) Component is static in nature
- 28) The intent of Object-Oriented Analysis(OOA) is to define:
- a) All classes
 - b) Relationships among classes
 - c) Behaviour of classes
 - d) All of the given options
- 29) Requirement engineering focuses on ----- aspect of the software development process.
- a) Both what and how
 - b) What
 - c) How
 - d) Why and how
- 30) ----- relationship is concerned with classes, not with class instantiates.
- a) Association
 - b) Inheritance
 - c) Aggregation
 - d) Composition
- 31) Which of the following statements are true in context of the object model deviation through the Coad methodology?
- a) A place is also a contains
 - b) Every container needs to be a place
 - c) Same person may play different times in the system.
 - i. A only
 - ii. A and b
 - iii. A and c
 - iv. All of the given
- 32) The goal of ----- is to translate the customer's desire for a set of defined capabilities into a working product.
- i. Electrical engineering
 - ii. Product engineering
 - iii. Hardware engineering
 - iv. Mechanical engineering
- 33) In case of a ----- message, the called routine that handles the message is completed before the caller resumes execution.
- a) Synchronous
 - b) Asynchronous
 - c) Bidirectional
 - i. A only
 - ii. B only

- iii. C only
 - iv. All of the given
- 34) In multiprocessing applications, different execution threads may pass information to one another by sending ----- to each other.
- i. Interrupt calls
 - ii. Synchronous messages
 - iii. Asynchronous messages
 - iv. System calls
- 35) A car is made up of a body, three or four wheels, a steering mechanism, a breaking mechanism, and a power engine”
- The above statement is example of:
- i. Whole-part relationship
 - ii. Inheritance
 - iii. Specialization
 - iv. Generalization
- 36) To help separate an object’s external behaviour from its implementation, the technique used is called -----
- i. Generalization
 - ii. Association
 - iii. Composition
 - iv. Abstraction
- 37) Sequences of messages can be present in:
- (a) Use case diagram
 - (b) Sequence diagram
 - (c) Collaboration diagram
- 1) a only
 - 2) b only
 - 3) c only
 - 4) b and c
- 38) Which of the following strategies lead to good software design:
- i. Separation of concerns
 - ii. Modularity
 - iii. Divide-and-conquer
 - iv. All of the given options
- 39) Data flow model:
- i. Captures the flow of data in a system
 - ii. Helps in developing an understanding of system’s functionality
 - iii. Describes data origination, transformations and consumption in a system
 - iv. All of the given options
- 40) ----- requirements are often called product features.
- i. Functional
 - ii. Non-functional
 - iii. Developer
 - iv. User
- 41) In the functional design, the structure of the system revolves around.
- i. Objects
 - ii. Properties

- iii. **Functions**
- iv. All of the given option
- 42) The first step in any OOA process model is to
- i. **Build an object-relationship model.**
- ii. Define collaborations between objects.
- iii. Elicit customer requirements
- iv. Select a representation language
- 43) The ----- relationship is kind of a generalization specialization relationship.
- i. Bit-byte
- ii. Uses
- iii. Binary
- iv. **Extends**
- 44) Regarding data flow model, which of the following statement(s) is true:
- i. It captures the transformation of data between processes/functions of a system
- ii. **Processes on a data flow can operate in parallel**
- iii. Only those processes are represented which we need to automate
- iv. All of the given option
- 45) ----- is an extremely powerful technique for dealing with complexity.
- i. Aggregation
- ii. **Abstraction**
- iii. Inheritance
- iv. Association
- 46) In "point of sale system". the term "payment" represents
- i. Actor
- ii. Participant
- iii. **Transaction**
- iv. Container
- 47) The architecture components for product engineering are
- i. **Data, hardware, software, people**
- ii. Data, documentation, hardware, software
- iii. Data, hardware, software, procedures
- iv. Documentation, hardware, people, procedures
- 48) An object model encompasses the principle(s) of
- i. Abstraction
- ii. Encapsulation
- iii. Hierarchy or inheritance
- iv. **All of the given option**
- 49) Prototyping is used when there is ----- regarding requirements.
- i. **Uncertainty**
- ii. Confirmation
- iii. Conflict
- iv. Consensus
- 50) In ----- phase of software development, requirement analyst focuses on possible design of the proposed solution.
- i. Maintenance
- ii. Development
- iii. **Definition**

- iv. Vision
- 51) At which stage of software development loop, results are delivered?
- i. Problem definition
 - ii. Solution integration
 - iii. Technical development
 - iv. Status quo
- 52) A class will be cohesive if:
- i. Class does not implement complex interfaces
 - ii. Class does not have complex methods
 - iii. If most of the methods do not use most of the data members most of the time
 - iv. If most of the methods use most of the data members most of the time.
- 53) A DFD is normally levelled (adding more levels of abstraction) as
- i. It is a good idea in design
 - ii. It is recommended by many experts
 - iii. It is easy to do it
 - iv. It is easier to read and understand a number of smaller DFDs than one large DFD
- 54) Identify the true statement(s)
- i. An attribute that may have a number of values should be replaced by a new class and an object connection
 - ii. An attribute that varies over time, e.g. price of an item, should be replaced by an additional class with an affective data and value
 - iii. Replace "yes/no" type attribute with "status" type attributes for flexibility
 - iv. All of given option
- 55) ----- Is a technique in which we construct a model of an entity based upon its essential characteristics and ignore the inessential details.
- i. Inheritance
 - ii. Polymorphism
 - iii. Aggregation
 - iv. Abstraction
- 56) A structure is a manner of an organization which expresses a ----- strong organization within the problem domain.
- i. Semantically
 - ii. Syntactically
 - iii. Graphically
 - iv. None of the given
- 57) An object model of a system captures the ----- structure of a system.
- i. Static
 - ii. Dynamic
 - iii. Iterative
 - iv. Hierarchical
- 58) To determine the architectural style or combination of styles that best fits the proposed system, requirements engineering is used to uncover
- i. Algorithmic complexity
 - ii. Characteristics and constraints
 - iii. Control and data
 - iv. Design patterns

- 59) Which statement is not according to the software engineering principles? Software engineering is a(n) _____
- Balancing act
 - Disciplined approach
 - Unsystematic approach**
 - Quantifiable approach
- 60) In abbot's textual analysis technique, different part of speech is identified within the text of the specification and these part are modelled using different _____
- Event
 - Process
 - Operations
 - Components**
- 61) Quantitative methods for assessing the quality of proposed architectural designs are readily available.
- True
 - False**
- 62) In order to determine the role and responsibilities of the identified objects, we need to consider which of the following step(s):
- Who I am?
 - What I know?
 - Who I know?
 - What I do?
- A only
 - A and b
 - B ,c and D
 - All of the given**
- 63) In object oriented design _____ layer contains the details that enable each object to communicates with its collaborators.
- Subsystem
 - Responsibility
 - Message**
 - Object
- 64) In sequence diagram, the boxes denote:
- Objects (or classes)**
 - Messages, sent from one object to other
 - Life-time of objects
 - None of the given option
- 65) In "railway tickit reservation system" the roles such as enquiry. Reservation and ticketing and cancellation are to be performed by the user called:
- Passenger**
 - System analyst
 - System developer
 - System designer
- 66) Class responsibilities are defined by _____
- Its attributes only
 - Its collaborators
 - Its operations only

- iv. Both its attributes and operations
- 67) Requirement engineering mainly deals with the _____ of the system
- Vision phase
 - Definition phase
 - Development phase
 - Maintenance phase
- 68) In UML based object oriented model of a system, a composition relation between two objects is shown by a _____ sign on the whole side of a relation line.
- An unfilled diamond
 - A filled diamond
 - A half diamond
 - A dot
- 69) _____ analysis educates the analyst on business domain complexity and shows a way to deal with it.
- Domain
 - Use case
 - Object collaboration
 - None of the given options
- 70) In this case of _____ intra component linkages are stronger while inter component linkages are weak.
- High cohesion
 - Low coupling
 - Low cohesion
 - High coupling
- 71) An architectural style encompasses which of the following elements?
- Constraints
 - Set of components
 - Semantic models
 - All of the given
- 72) In software engineering paradigm, any engineering approach must be founded on organizational commitment to _____
- Cost
 - Scheduling
 - Quality
 - Performance
- 73) Identify the true statement:
- Normally object oriented design is more maintainable than functional oriented.
 - Software with functional oriented design does not fulfil non functional requirements.
 - Object oriented design can not implement "separation of concerns" strategy
 - Function oriented design does not lead to an efficient product
- 74) A process in data flow diagram (DFD) represents
- Flow of data
 - Transformation of data
 - Storage of data
 - An external agent
- 75) A maintainable design is a design , which supports
- Change

- ii. Debugging
 - iii. Adding new features
 - iv. All of the given
- 76) Whole part structure is also called _____
- i. Generalization
 - ii. Aggregation
 - iii. Specialization
 - iv. Association
- 77) _____ are kind of umbrella activities that are used to smoothly and successfully perform the construction activities.
- i. Design activities
 - ii. Management activities
 - iii. Testing activities
 - iv. Maintenance activities
- 78) When you encounter both transform flow in the same DFD the flow is partitioned and the appropriate mapping technique is used on each part of the DFD.
- i. True
 - ii. False
- 79) Software architecture must address ----- requirements of a software system.
- i. Functional
 - ii. Non-functional
 - iii. User Interface Requirements
 - iv. Both functional and non-functional.
- 80) To construct a system model the engineer should consider one of the following restraining factors.
- i. Assumptions and constraints
 - ii. Budget and expenses
 - iii. Data objects and operations
 - iv. Schedule and milestones
- 81) A cohesive class is one which emphasizes on ----- unit of functionality.
- i. Single
 - ii. Multiple
 - iii. Static
 - iv. None
- 82) The best way to conduct a requirement validation review is to
- i. Examine the system model for errors
 - ii. have the customer look over the requirements
 - iii. Send them to the design team and see if they have any concerns
 - iv. Use a checklist of the questions to examine each requirement
- 83) Defining the services of an object means:
- i. What it does?
 - ii. What it knows?
 - iii. Who knows it?
- 84) Which one of the following is the external quality of a software product?
- i. Correctness
 - ii. Concision
 - iii. Cohesion

- iv. Low coupling
- 85) In Data Flow Diagram, the entity or system, outside the boundary of this system is called:
- Process
 - Data flow
 - External agent
 - Data store
- 86) GUI stands for:
- Generic user Interface
 - Graphical user interface
 - Generic user interaction
 - Graphical user interaction
- 87) Specialization means:
- Calling the same method with the object of child object
 - Hiding the data
 - Creating new subclasses for an existing class
 - None of the given options
- 88) In a use case diagram, an ellipse signifies a(n):
- Actor
 - Class
 - Use case
 - System boundary
- 89) Software development is a step-by-step process, and in ----- phase of software development Business objective of an organization get cleared
- Maintenance
 - Development
 - Definition
 - Vision
- 90) If you try to make software more user-friendly then the ----- may suffer.
- Reliability
 - Software
 - Efficiency
 - Cost
- 91) In object-oriented design, the structure of the system revolves around.
- Objects
 - Properties
 - Methods
 - All of the given option
- 92) In ----- relationship, a class shares the structure and behaviour defined in another class:
- Aggregation
 - Composition
 - Inheritance
 - Uses
- 93) In Object Oriented Design, combining the services offered by an object with the attributes they work on, results in:
- Lower coupling and strong cohesion
 - Lower cohesion and strong coupling
 - Increased likelihood of reuse

(d) Decrease the modularity of the system

- i. A only
- ii. B and c only
- iii. A and c only

94) A change becomes ----- because of close presence of data and functions.

- i. Accessible
- ii. Global
- iii. Private
- iv. Localized

95) Software engineering is a ----- approach.

- i. Systematic
- ii. Disciplined
- iii. Scheduled
- iv. All of the given options

96) An external entity that interacts with the system is called a(n):

- i. Use case
- ii. Actor
- iii. Stakeholder
- iv. Association

97) More powerful hardware resulted into the development of -----powerful and ----- software.

- i. Less, complex
- ii. More , complex
- iii. More, simple
- iv. Less, simple

98) A context diagram is used:

- i. As a first step in developing a detailed DFD of a system
- ii. In systems analysis of very complex systems
- iii. As an aid to system design
- iv. As an aid to programmers

99) " System should maintain transaction log of every system"

The above statement is an example of:

- i. Functional requirement
- ii. Non-functional requirement
- iii. Pseudo requirement
- iv. None of these

100) The architectural model provides the software engineer with the view of the system as a whole:

- i. True
- ii. False

101) As per Peter Coad's methodology , which of the following may not be a perfect candidate for being an object?

- i. Zone
- ii. Recipient
- iii. Garage
- iv. Password

- 102) In the case of ----- approach , data is decomposed according to functionality requirements.
- Object-oriented
 - Action-oriented
 - Event-oriented
 - Process-oriented
- 103) In UML based Object Oriented Model of a system, the diamond sign is used to depict ----- relations between two objects/classes.
- Aggregation and Association
 - Inheritance and Association
 - Composition and Aggregation
 - Composition, Aggregation and Association
- 104) The system specification describes the:
- Function and behavior of a computer-based system
 - Implementation of each allocated system element
 - Algorithmic detail and data structures
 - Time required for system simulation
- 105) In object oriented approach, ----- are the people and organizations that take part in the system under consideration:
- Actors
 - Places
 - Participants
- 106) Software Design discusses ----- aspect of software development.
- What
 - How
 - Who
 - When
- 107) ----- requirements cause frequent modifications in user interface.
- Functional
 - Non-functional
 - Unstable
 - User
- 108) By levelling a DFD (adding more levels of abstraction) we mean:
- Splitting it into different levels
 - Make its structure uniform
 - Expanding a process into one with more sub-processes giving more detail
 - Summarizing a DFD to specify only these essentials
- 109) A "register" in "Point of Sale system" is an example of:
- Actor
 - Participant
 - Tangible thing
 - Transaction
- 110) ----- is a set of processes and tools to develop software.
- Software engineering
 - Information
 - Software
 - None of the given

- 111) The ----- on which program operates is also considered as part of the software.
- Data
 - Information
 - Program
 - None of the given
- 112) ----- diagram provides a time-based view and collaboration diagrams which provide an organization based view of the system's dynamics.
- Data flow diagram
 - Entity relationship diagram
 - Class diagram
 - Sequence diagram
- 113) Synchronous messages are "call events" and are denoted by -----
- Full arrow
 - Half arrow
 - <<create>>
 - <<destroy>>
- 114) Which of the following are the components of system engineering software?
- Process
 - Methods
 - Tools
 - All of the given
- 115) Identifying system features include -----
- Log important information
 - Conduct business
 - Analyze business results
 - All of the above
- 116) ----- is yet another technique that is used to reduce customer dissatisfaction at the requirement stage.
- Study of similar systems
 - Site visits
 - Prototyping
 - All of the above
- 117) Data store notation in DFD represents:
- Data input
 - Data output
 - Data input and data output
 - None of the above
- 118) The process of defining attributes is called -----
- Who know me?
 - What I know?
 - Whom I know?
 - All of the above
- 119) The output of the design process is a description of the:
- Software architecture
 - Software Code
 - Software
 - All of the above

- 120) Which of the following are the levels of software requirements?
- Business requirements
 - User requirements
 - Functional requirements
 - All of the above
- 121) Given below are some statements associated with data flow diagrams. Identify the correct statement among them.
- Data flow is made used of to model what systems do
 - Flows of data can take place from a process to a sink
 - Context diagrams shows the major system processes
 - All processes have to be labelled or decomposed
- 122) In which of the following diagram the actors and attributes are represented with system boundary?
- Data flow diagram
 - Entity relationship diagram
 - Class diagram
 - Use case diagram
- 123) _____ is real looking mock_up of what would be eventually delivered and might not do anything useful.
- Study of similar system
 - Site visits
 - Prototyping
 - All of the above
- 124) _____ is blueprint for software construction.
- Object oriented design
 - Sequence design
 - Software design
 - All of the above
- 125) _____ requirements lead to ill-spent time and rework.
- Unacceptable
 - Ambiguous
 - Dissatisfaction of customer
 - None of the above
- 126) Which type of diagram is used to depict the dynamic behaviour of a system.
- ERD diagram
 - DFD diagram
 - Class diagram
 - Collaborations diagram
- 127) What is the most crucial non-functional requirement of a system to control radiation dosages that are emitted as treatment for cancer?
- Security
 - Reliability
 - Easy usability
 - Accuracy
- 128) A better design has an objective achieve
- High cohesion
 - Low cohesion

- iii. Low coupling
 - iv. High cohesion and low coupling
- 129) Which of the following are the components of software engineering framework is combine the three remaining components?
- i. Process
 - ii. Method
 - iii. Tools
 - iv. All of the above
- 130) In sequence diagrams the time required by the receiver object to process the message is denoted by an _____
- i. Activation box
 - ii. Message line
 - iii. Life line
 - iv. All of the above
- 131) How many types of OOD modes have _____.
- i. One
 - ii. Two
 - iii. Three
 - iv. Four
- 132) Which notation is used to represent the process of the system in DFD model.
- i. Process
 - ii. External agent
 - iii. Data flow
 - iv. Data store
- 133) Requirement engineering mainly deals with the _____ of the system
- i. Process
 - ii. Maintenance
 - iii. Development phase
 - iv. Definition phase
- 134) Insufficient user involvement leads to _____ products.
- i. Unacceptable
 - ii. Ambiguous
 - iii. Dissatisfaction of customer
 - iv. None of the above
- 135) Collaboration diagrams have basically two types of components: objects and _____
- i. Messages
 - ii. Method
 - iii. Classes
 - iv. None of the above
- 136) In object-oriented analysis how many number of tasks must occurs _____.
- i. 1
 - ii. 2
 - iii. 3
 - iv. None of the above
- 137) State transition diagram is helpful in determining _____.
- i. Data store
 - ii. Process flow

- iii. Business understanding
- iv. None of the above
- 138) In sequence diagram events are organized in a _____ time life line.
- i. Vertical
- ii. Horizontal
- iii. Both A and B
- iv. All of the above
- 139) Asynchronous messages are "signals," denoted by _____.
- i. Full arrow
- ii. Half arrow
- iii. <<create>>
- iv. <<destroy>>
- 140) When we write a program for computer and then we named it as _____.
- i. Data
- ii. Information
- iii. Software
- iv. None of the given
- 141) Context level diagram present in which of the following document.
- i. SRS-software requirement specification
- ii. Design document
- iii. Test phase
- iv. All of the above
- 142) _____ is diagram in which objects are interact with each other and these are arranged in a sequence.
- i. ERD diagrams
- ii. Inheritance diagrams
- iii. Class diagrams
- iv. Sequence diagrams
- 143) Which of the following layers are include in object-oriented design?
- i. The subsystem layers
- ii. The class and object layer
- iii. All of the above
- iv. The message layers
- 144) Which notation is used to represent the boundary of the system in DFD model?
- i. Process
- ii. External agent
- iii. Data flow
- iv. Data store
- 145) Identifying whole-part structures (aggregations) means what are my _____.
- i. Components
- ii. Structures
- iii. Class
- iv. Object
- 146) An object or class may further be classified on the basis of _____.
- i. Behaviour driven attributes
- ii. Data driven attributes
- iii. Responsibility driven attributes

- iv. All of the above
- 147) DFD notation contains
- Process
 - External agent
 - Data flow
- iv. All of the above
- 148) The dotted lines in sequence diagram are called ____ .
- Life line
 - Message line
 - Entities line
 - All of the above
- 149) An object may create another object via a ____ message .
- Full arrow
 - half arrow
 - <<create>>
 - <<destroy>>
- 150) How many levels of software requirements are ____?
- One
 - Two
 - Three
 - Four
- 151) Which of the following diagram has iterative activities?
- Data flow diagram
 - Entity relationship diagram
 - Class diagram
 - Use case diagram
- 152) Which of the items listed below is not one of the software engineering layers?
- Tools
 - Manufacturing
 - Process
 - Methods
- 153) Coupling is a measure of ____ a module or component.
- Independent
 - Dependent
 - Closeness
 - All of the given
- 154) Software maintenance phase involves
- Debugging
 - Adding new features
 - Making changes
 - All of the given
- 155) The hardest single part of building a software system is deciding precisely ____ to build.
- When
 - What
 - Why
 - All of the given
- 156) Interaction diagrams depict the ____ behaviour of the system.

- i. Static
 - ii. Active
 - iii. Dynamic
 - iv. None of the given
- 157) A _____ can be used to describe the dynamic behaviour of an object-oriented system.
- i. ERD diagrams
 - ii. Inheritance diagrams
 - iii. Class diagrams
 - iv. Series diagrams
- 158) The Use case diagram shows that which _____ interact with each use case.
- i. Use case
 - ii. Actor
 - iii. Component
 - iv. Relation
- 159) Transactions are the _____ that must be remembered through time.
- i. Events
 - ii. Action
 - iii. Triggers
 - iv. Methods
- 160) A necessary supplement to transform or transaction mapping needed to create a complete architectural design is
- i. Entity relationship diagrams
 - ii. The data dictionary
 - iii. Processing narratives for each module
 - iv. Best cases for each module