CTR –OOAD

By,

Aayush – 2015103621

Yilmaz - 2015103064

Ranjan - 2015103049

Vaibavi.V – 2015103536

Neeraja.B - 2015103520

Sujitha

Aishwarya

1) The method of design encompassing the process of object-oriented decomposition and a notation for depicting both logical and physical and as well as static and dynamic models of the system under design is known as:

a) Object- Oriented Programming
b) Object- Oriented Design
c) Object- Oriented Analysis
d) None of the mentioned
ANSWER: b

2) What is the programming style of the object-oriented conceptual model?

a) Invariant relationships
b) Algorithms
c) Classes and objects
d) Goals, often expressed in a predicate calculus.
ANSWER: c

3) The essential characteristics of an object that distinguish it from all other kinds of objects and thus provide crisply defined conceptual boundaries, relative to the perspective of the viewer is called:

a) Encapsulation
b) Modularity
c) Hierarchy

d) Abstraction
ANSWER: d

4) Abstraction is classified into _____ types

a) 4
b) 3
c) 2
d) 1

ANSWER: a

5) The process of compartmentalizing the elements of an abstraction that constitute its structure and behavior is called as

a) Hierarchy
b) <mark>Encapsulation</mark>
c) Modularity
d) Entity Abstraction
ANSWER: b

6) Single inheritance, Multiple inheritance, and Aggregation comes under _____

a) Modularity
b) Typing
c) <mark>Hierarchy</mark>
d) None of the mentioned
ANSWER: c

7) In which of the following mechanisms, types of all variables and expressions are fixed at compilation time.

a) Strong Typing
b) Weak Typing
c) <mark>Static Binding/ early binding</mark>
d) Dynamic Binding/ late binding
ANSWER: c

8) In which of the following mechanisms, types of all variables and expressions are not known until runtime

a) Strong Typing
b) Weak Typing
c) Static Binding/ early binding
d) Dynamic Binding/ late binding
ANSWER: d

9) Which of the following statements about Persistence is correct?

a) It is the enforcement of the class of an object, such that objects of different types may not be interchanged, or at the most they may be interchanged only in very restricted ways.
b) It is the property of an object through which its existence transcends time and/or space.
c) It is the property that distinguishes an active object from one that is not active.
d) All of the mentioned
ANSWER: b

10) What is that concept in type theory in which a single name may denote objects of many different classes that are related by some common super class referred to _____

a) Monomorphism
b) Type Checking
c) Polymorphism
d) Generalization
ANSWER: c

11. _____ relationship is used to model an inheritance.

A. Specialization
B. Generalization
C. Dependency
D. None
ANSWER: a

12. The architecture of a software-intensive system can be described by _____ views.

A. three
B. five
C. nine
D. none
ANSWER: b

13. A dashed line with hollow arrowhead represents _____ relationship.

A. realization
B. association
C. dependency
D. generalization
ANSWER: a

14. There are generally _____ diagrams used in UML.

A. seven
B. eight
C. nine
D. ten
ANSWER: c

15. A relationship between classes and interfaces can be viewed as _____ relationship.

A. association
B. generalization
C. link
D. realization
ANSWER: d

16. A _____ is a general purpose mechanism for organizing elements into groups.

A. node
B. class
C. package
D. component
ANSWER: c

17. Which is not one of the model of OMT?

A. dynamic
B. static
C. <mark>functional</mark>
D. none
ANSWER: c

18. A link can be viewed as a subset of _____.

A. generalization
B. <mark>association</mark>
C. both A and B
D. none
ANSWER: b

19. A component diagram address the static _____ view of system.

A. structural
B. behavioral
C. <mark>implementation</mark>
D. none
ANSWER: c

20. A tagged value extends the _____ of a UML building block.

A. vocabulary
B. <mark>properties</mark>
C. semantic
D. definition
ANSWER: b

21) The expansion of the acronym CRC is
a. Collecting Responsibilities Classes
b. Collaborating with Relevant Classes
c. <mark>Class Responsibilities and Collaborators</mark>
d. Creating Relevant Classes
ANSWER: c

22) In UML diagram of a class
a. state of object cannot be represented
b. state is irrelevant
c<mark>. state is represented as an attribute</mark>
d. state is represented as a result of an operation

ANSWER: c

23) The method of design encompassing the process of object oriented decomposition and a notation for depicting both logical and physical and as well as static and dynamic models of the system under design is known as:
a) Object- Oriented Programming
b) Object- Oriented Design
c) Object- Oriented Analysis
d) None of the mentioned
ANSWER: b

24) Which of the following is correct about Behavioral design patterns.
A - These design patterns are specifically concerned with communication between objects.
B - These design patterns provide a way to create objects while hiding the creation logic, rather than instantiating objects directly using new opreator.
C - These design patterns concern class and object composition. Concept of inheritance is used to compose interfaces and define ways to compose objects to obtain new functionalities.
D - None of the above.

ANSWER: a

25) Which of the following pattern is used when creation of object directly is costly?
A - Bridge Pattern
B - Adapter Pattern
C - Prototype Pattern
D - Filter Pattern
ANSWER: c

26) Which of the following describes the Null Object pattern correctly?
A - In this pattern, a class behavior changes based on its state.
B - In this pattern, a null object replaces check of NULL object instance.
C - In this pattern, a class behavior or its algorithm can be changed at run time.
D - In this pattern, an abstract class exposes defined way(s)/template(s) to execute its methods.
ANSWER: b

27) Which of the following pattern allows a user to add new functionality to an existing object without altering its structure?
A - Composite Pattern
B - Facade Pattern
C - Flyweight Pattern
D - Decorator Pattern
ANSWER: d

28) Which of the following describes the Bridge pattern correctly?
A - This pattern builds a complex object using simple objects and using a step by step approach.
B - This pattern refers to creating duplicate object while keeping performance in mind.
C - This pattern is used when creation of object directly is costly.
D - This pattern is used when we need to decouple an abstraction from its implementation so that the two can vary independently.
ANSWER: d

29) Which of the following pattern is used when we want to locate various services using JNDI lookup?
A - DAO Pattern
B - Front Controller Pattern
C - Intercepting Pattern
D - Service Locator Pattern
ANSWER: d

30) Which type of design patterns concern class and object composition?
A - Creational Design Patterns
B - Structural Design Patterns
C - Behavioral Design Pattern
D - J2EE Design Patterns
ANSWER: b

31) In a risk-based approach the risks identified may be used to:

  i. Determine the test technique to be employed
ii. Determine the extent of testing to be carried out
iii. Prioritize testing in an attempt to find critical defects as early as possible.
iv. Determine the cost of the project

a. ii is True; i, iii, iv and v are False
b. i,ii,iii are true and iv is false

c. ii and iii are True; i, iv are False
d. ii, iii and iv are True; i is false
ANSWER: c

32) Which of the following is not a part of the Test Implementation and Execution Phase?

a. Creating test suites from the test cases
b. Executing test cases either manually or by using test execution tools
c. Comparing actual results
d. Designing the Tests
ANSWER: b

33) The Test Cases Derived from use cases _____ .

a. Are most useful in uncovering defects in the process flows during real world use of the system.
b. Are most useful in uncovering defects in the process flows during the testing use of the system.
c. Are most useful in covering the defects in the process flows during real world use of the system.
d. Are most useful in covering the defects at the Integration Level.
ANSWER: c

34) Which plan describes how the skills and experience of the project team members will be developed ?

a. HR Plan
b. Manager Plan
c. Team Plan
d. Staff Development Plan
ANSWER: b

35) The model in which the requirements are implemented by its category is _____ .

a. Evolutionary Development Model

b. Waterfall Model
c. Prototyping
d. Iterative Enhancement Model
ANSWER: a

36)   SRD stands for _____ .

a. Software Requirements Definition
b. <mark>Structured Requirements Definition</mark>
c. Software Requirements Diagram
d. Structured Requirements Diagram
ANSWER: b

37)   Which is the most important feature of spiral model?

a. Quality management
b. <mark>Risk management</mark>
c. Performance management
d. Efficiency management
ANSWER: b

38)   If every requirement stated in the Software Requirement Specification (SRS) has only one interpretation, SRS is said to be correct _____ .

a. Unambiguous
b. Consistent
c. Verifiable
d. <mark>None of the above</mark>
ANSWER: d

39)   ER model shows the _____ .

a. <mark>Static view</mark>
b. Functional view
c. Dynamic view
d. All the above
ANSWER: a

40)   If the objects focus on the problem domain, then we are concerned with _____.

a. Object Oriented Analysis

b. Object Oriented Design
c. <mark>Object Oriented Analysis and Design</mark>
d. None of the above
ANSWER: c

41) Which of the following is not a maturity level as per the Capability Maturity Model (CMM)?
    a. Initial
    <mark>b. Measurable</mark>
    c. Repeatable
    d. Optimized
        ANSWER: b

42) Black box testing is sometimes called ?
    a. Data Flow testing
    b. Loop Testing
    <mark>c. Behavioral Testing</mark>
    d. Graph Based Testing
ANSWER: c

43) In order to identify objects, use ……………… of a natural language description of a system where objects and attributes are nouns, operators or services are verbs.
A) Tangible entities
B) <mark>grammatical analysis</mark>
C) behavioral approach
D) scenario-base analysis
ANSWER: b

44) In function-oriented design,   …………..   should show how data passes through the system and is transformed by each system function.
A) data-flow design
B) structural decomposition
C) system structuring
<mark>D) detailed design description</mark>
ANSWER: d

45) ……….. are the transformations in the diagram, which are responsible for central processing functions.
A) Input transformations
B) Output transformations

C) System-processing transformations
D) Storage transformations.
ANSWER: c

46) …………concerned with developing an object-oriented model of a software system to implement the identified requirements.
A) Object oriented analysis
B) Object oriented methods
C) Object oriented design
D) Object oriented programming

ANSWER: c

47). ……….. is concerned with realizing a software design using an object-oriented programming language.
A) Object oriented analysis
B) Object oriented methods
C) Object oriented design
D) Object oriented programming

ANSWER: a

48) In CRC based design a CRC team consists of
(i)   one or two user's representatives
(ii)   several programmers
(iii)   project coordinators
(iv)   one or two system analysts
   a. i, ii
   b. i, iii
   c. i, iii, iv
   d. i, ii, iii, iv
     ANSWER: c

49) A polymorphic operation
   a. has same name
   b. has same name but uses different methods depending on class
   c. uses different methods to perform on the same class
   d. uses polymorphic method

ANSWER: b

50) Which is the correct name for "a possible set of classes, together with an understanding of how those classes might interact to deliver the functionality of a use case"?
   a. A use case class diagram
   b. A realization
   c. A collaboration
   d. aggregation

ANSWER: c

51) An abstract class is which of the following?
   a. A class that has direct instances, but whose descendants may have direct instances.

   b. A class that has no direct instances, but whose descendants may have direct instances.

   c. A class that has direct instances, but whose descendants may not have direct instances.

   d. A class that has no direct instances, but whose descendants may not have direct instances

   ANSWER: b

52) Which GRASP pattern do you use to decide who is going to handle the incoming system events?
   a. Controller

   b. Low coupling

   c. Adapter

   d. Information Expert

ANSWER: a

53) Which of the following is not defined in a good SRS document?
   a. Functional requirements

b. Non-functional requirements

c. Goals of implementation

d. <mark>Algorithm for software implementation</mark>

ANSWER: d

54) Which of the following is the understanding of software product limitations, learning system related problems or changes to be done in the existing system beforehand, identifying and addressing the impact of the organization and the personnel etc?

a. Software design

b. Feasibility study

c. Requirement gathering

d. <mark>System analysis</mark>

ANSWER: d

55) Which testing is the re-exexcution of some subset of tests that have already been conducted to ensure the changes that are not propagated?

a. Unit testing

b. <mark>Regression testing</mark>

c. Integration testing

d. Thread based testing

ANSWER: b

KEY

1. B	11. A	21.C	31.C	41.B
2. C	12. B	22.C	32.B	42.C
3. D	13.A	23.B	33.C	43.B
4. A	14.C	24.A	34.B	44.D
5. B	15.D	25.C	35.A	45.C
6. C	16.C	26.B	36.B	46.C
7. C	17.C	27.D	37. B	47.A
8. D	18.B	28.D	38.D	48.C
9. B	19.C	29.D	39.A	49.B
10. C	20.B	30.B	40.C	50.C

51. B
52. A
53. D
54. D
55. B