1) The reasons behind modeling can be Readability Reusability Both None **Answer Both** 2) The Unified Modeling Language (UML) is a standard language for specifying visualizing constructing all Answer all 3) The primary goals in the design of the UML were security interactivity both none Answer none 4)Total valid UML diagrams 7 8 9

Answer 9

10

5) UML Diagram Classification

Static, Dynamic 0-1 small, large

no option
Answer: Static, Dynamic
6) Modeling is a mean for dealing with complexity
TRUE FALSE partial dont know
Answer: true
7) Class diagrams represent the structure of the system
TRUE FALSE not sure dont know
Answer: true
8) A class represent a concept
TRUE FALSE not sure dont know
Answer: true
9) An activity diagram dont shows flow control within a system
TRUE FALSE partial not sure

Answer: False

10) Programmers Approach to Software Engineering

Skip requirements engineering and design phases start writing code above two none

Answer: above two

11) Design is a waste of time

programmers approach Designer Approach Engineer's Approach Manager Approach

Answer: programmers approach

12) We need to show something to the customer real quick Programer's Approach Designer Approach Engineers Approach Manager's Approach

Answer: Manager's approach

13) Design is a trial-and-error process

TRUE FALSE not sure dual

Answer: not sure or true

14) Software design as a wicked problem

TRUE FALSE not sure dont know

Answer: true

16) Every wicked problem is a symptom of another problem TRUE FALSE

Answer: true

17) Following is a design principle

class

none both

Abstraction Polymorphism Inheritance

Answer: class (not sure)

18) Complexity

High value is high complexity Low value is high complexity Zero value is high complexity High value is no complexity

Answer: (Didn't get what the question wants to ask)

19) Design methods

jsp

jsd

er

all

Answer: All

20) OOD methods

fusion booch both

.....

none

Answer: Both

21) JSP is

Jackson Structured Programming

Jackson Structured Project

both none

Answer: None

22) Which programming language is the foundation of the Jackson Library?

Jackson J2EE both

none

Answer: None

23) JSD is

Jackson Structured Data Jackson Structured Design

both none

Answer: Jackson Structured Design

24) JSP is for

programming-in-the-small

programming-in-the-large

both none

Answer: Both

25) JSD is for

programming-in-the-small

programming-in-the-large

both none

26) Does Jackson support data binding?

yes

no

Answer: yes

27) JSP basic idea is bad program reflects structure of its input and output program reflects structure good program reflects structure of its input good program reflects structure of its input and output

Answer: good program reflects structure of its input and output

28) In jsp, program can be derived almost mechanically from a description of the input and

output TRUE **FALSE**

Answer: True

29) input and output are depicted in a structure diagram and/or in structured text/schematic logic this is concept of--

jsp jsd both none

Answer: both

30) Basic compound forms of jsp is/are sequence iteration selection

all

Answer: all

31) Model input and output in jsp

use any diagrams State diagrams structure diagrams class diagrams

Answer: structure diagrams

32) In JSP, Merge diagrams to create program structure create object structure create class structure all

Answer: WTF Questions wants to ask

33) IN JSP, Optimize results through program inversion
Simple optimization both
none

Answer: program inversion

34) The modeling stage, network stage, implementation stage are stages of

JSP JSD both none

Answer: JSD

35) How many ways does Jackson provide to process JSON?

5

4

3

2

Answer: 3

36) JSD life cycle is depicted as process structure diagram program structure diagram
Project structure diagram
Part of structure diagram

Answer:

37) Is there any additional library required by the Jackson library outside the JDK? Yes

No

Answer: No

38) process structure diagrams are finite state diagrams infinite state diagrams state diagrams
Interstate diagrams

Answer: State Diagram

39) identify the objects, determine their attributes and services, determine the relationships between objects are stages of

JSP

JSD

OOAD

OOD

Answer: OOAD

40) Software Life Cycle Activities, in Requirements Specification
System analyst works with users to clarify the detailed system requirements
System manager works with users to clarify the detailed system requirements
System leader works with users to clarify the detailed system requirements
System tester works with users to clarify the detailed system requirements

Answer: System analyst works with users to clarify the detailed system requirements

41) Is Jackson library open-source?

yes no

Answer: YES

42) Software Life Cycle Activities, in Analysis

Make sure you partially understand the problem before starting the design or program a solution Make sure you completely understand the problem before starting the design or program a solution

Make sure you completely understand the problem before end the design or program a solution Make sure you completely understand the problem before starting the analysis or program a solution

Answer: Make sure you completely understand the problem before starting the design or program a solution

43) Software Life Cycle Activities, in Design

Top-down: break system into larger main system Top-down: combine system into smaller subsystems Top-down: break system into smaller subsystems Top-down: combine system into larger system

Answer: Top-down: break system into smaller subsystems

44) The Unified Modeling Language (UML) is a standard language for

specifying visualizing constructing all

Answer: All

45) The reasons behind modeling can be Readability Reusability both none

Answer: Both

46) The primary goals in the design of the UML were

Security Interactivity both

none

Answer:

47) Total valid UML diagrams

7

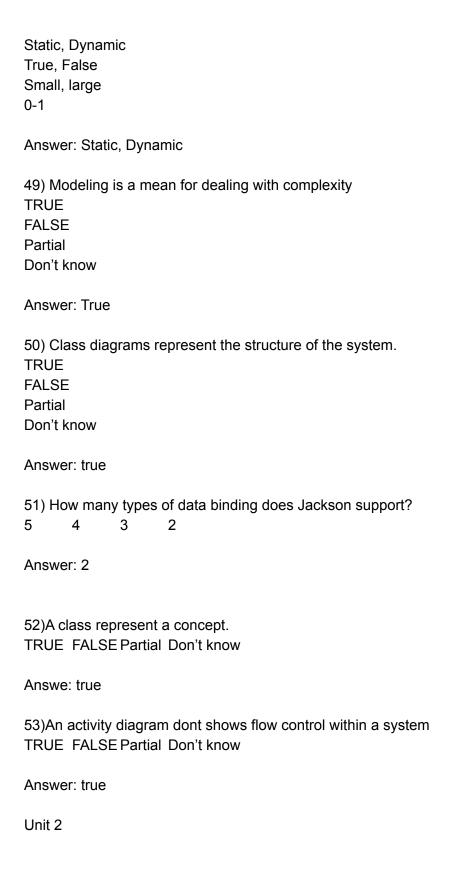
8

9

10

Answer: 9

48) UML Diagram Classification



54) All architecture is software design, but not all design is software architecture

TRUE FALSE not sure no option

Answer: true

55) Architecture focuses on †issues that will be difficult/impossible to change once the system

is built'

TRUE FALSE not sure no option

Answer: true

56) Architecture is the fundamental organization

A. of a system, embodied in its components.

- B. A and their relationships to each other and the environment
- C. B and the principles governing its design and evolution.
- D. Nothing like it

Answer: C

57) Data passing mechanisms

Function call System call both none

Answer: Function call

58) Control flow is

Sequential Concurrent both none

Answer Both

59) Non-functional requirements (NFRs) include Technical Constraints Bussiness Constraints qos all

Answer: All

60) What does an Architect do Liaison with stakeholders Technology knowledge Risk managements all

Answer: all

61) What are Quality Attributes reliability smartness both

Answer: reliability

none

62) Throughput is Performance Complexity security none

Answer: Performance (not sure)

63) Security is performance QoS Complexity Part of reliability

Answer: Part of reliability (not sure)

64) Non-functional requirements are also called as QOS
Feedback
nob qos
ALL

Answer: QOS

65) Control flow can be Synchronous Non-Synchronus Both none

Answer: both

66) Patterns Help efficiently communicate a design TRUE FALSE not sure no option

Answer: true

67) Patterns and Styles are not the same thing

TRUE FALSE not sure no option

Answer: true

68) Non-functional requirements (NFRs) do not define â€~how' a system works

TRUE FALSE not sure no option

Answer: true

69) Architecture provides an abstract view of a design by

Hides complexity of design

direct mapping between architecture elements and software elements

both none

Answer: Hides complexity of design

70) Hierarchical decomposition is a powerful abstraction mechanism

TRUE FALSE not sure no option

Answer: true

71) A software architecture represents a simple design artifact

TRUE FALSE Not sure no option

Answer: false

72) Process view: describes the concurrency and communications elements of architecture.

2+1 View Model 3+1 View Model 4+1 View Model 5+1 View Model

Answer: 4+1 View Model

72) Logical view: describes architecturally significant elements of the architecture and the

relationships between them.

2+1 View Model 3+1 View Model 4+1 View Model 5+1 View Model

Answer: 4+1 View Model

73) The design process for identifying the sub-systems making up a system and the framework

for sub-system control and communication is architectural design Software design Data design Process design

Answer: architectural design

74) The output of this design process is a description of the--software architecture
data architecture
both
none

Answer: Both

75) An early stage of the system design process
Data design
Software design
architectural design
None of above

Answer: architectural design

76) What Represents the link between specification and design processes
Data design
Software design
architectural design
None of above

Answer: architectural design

77) What involves identifying major system components and their communications
Data design
Software design
architectural design
None of above

Answer: architectural design

78) The system is decomposed into several principal sub-systems and communications between these sub-systems are identified as --System structuring

Control modelling
Modular decomposition
None of above

Answer: System structuring

79) A model of the control relationships between the different parts of the system is established

as ---

System structuring

Control modelling

Modular decomposition

None of above

Answer: Control modelling

80) The identified sub-systems are decomposed into modules as ---

System structuring

Control modelling

Modular decomposition

None of above

Answer: Modular decomposition

81) A ----- is a system in its own right whose operation is independent of the services provided

by other sub-systems

Sub system

Super system

Co system

System of system

Answer: Sub system

82) A -----is a system component that provides services to other components but would not

normally be considered as a separate system

Co-module

module

Sub-module

None of above

Modular

Answer: module

83) Different architectural models may be produced during the ----

design process
Engineering process

Α

Answer: design process

84) Each model presents which different perspectives on the architecture Static structural model
Dynamic process model
Interface model
All of above

Answer: all

85) ------that shows the major system components Static structural model Dynamic process model Interface model

-

Answer: Static structural model

86) -----that shows the process structure of the system Static structural model Dynamic process model Interface model

_

Answer: Dynamic process model

87) -----that defines sub-system interfaces Static structural model Dynamic process model Interface model

-

Answer: Interface model

88) Uses of distributed object architecture is
As a logical model that allows you to structure and organise the system.
As a non flexible approach to the implementation of client-server systems.
As a physical model that allows you to structure and organise the system.

As a view model that allows you to structure and organise the system.

Answer: As a logical model that allows you to structure and organise the system

89) Advantages of distributed object architecture

It allows the system designer to delay decisions on where and how services should be provided It is a very open system architecture that allows new resources to be added to it as required The system is flexible and scaleable

All of above

Answer: all

90) Which of following is true for Distributed object architectures

Each distributable entity is an not object

There is no distinction in a distributed object architectures between clients and servers

Object communication is through a non middleware system

Simplest to design than C/S systems

Answer: 😵

91) Three-tier architectures are

In a three-tier architecture, each of the application architecture

layers may execute on a separate processor

Allows for better performance than a thin-client approach and is simpler to manage than a fat-client approach

A more scalable architecture - as demands increase, extra servers can be added All of above

Answer: all

92) More processing is delegated to the client as the application processing is locally executed

Flat client model

Thin client model

Thin server model

Flat server model

Answer: Thin client model

93) Most suitable for new C/S systems where the capabilities of the client system are known in advance

Flat client model

Thin client model

Thin server model

Flat server model

Answer: Thin client model

94) How do architects influence on developing organization?

Long term business Immediate business Organization structure

All of the above

Answer: All of the above

95) Which of the following factors are influenced on the architect?
Background and experience of the architects
Developing an organization
Customers and end users
All of the above

Answer: All of the above

96) More complex than a thin client model especially for management.

Fat client model
Thin client model
Thin server model
Fat server model

Answer: Flat client model

97) Used when legacy systems are migrated to client server architectures

Fat client model Thin client model Thin server model

Fat server model

Answer: Fat client model

98) A major disadvantage of ---- is that it places a heavy processing load on both the server

and the network

Fat client model

Thin client model

Thin server model

Fat server model

Answer: Thin client model

99) ----- Concerned with presenting the results of a computation to system users and with collecting user inputs

Application processing layer

Data management layer

Presentation layer

None of above

Answer: Presentation layer

100) --- Concerned with providing application specific functionality Application processing layer Data management layer Presentation layer None of above

Answer: Application processing layer

101) Distribution of process to processor may be pre-ordered or may be under the control of a dispatcher

Multiprocessor architectures

Single processor architectures

Non-processor architectures

Nano processor architectures

Answer:

102) Which one is true with regards to the architecture business cycle? The architecture affects the structure of developing organizations
The architecture can affect the enterprise goals of the developing
All of the Above
None of the these

Answer:

103) System composed of multiple processes which may (but need not) execute on different processors

Single processor architectures Multiprocessor architectures Non-processor architectures Nano processor architectures

Answer:

104) Architectural model of many large real-time systems is part of Single processor architectures
Non-processor architectures
Nano processor architectures
None of above

Answer:

Unit 3

105) Architectural Patterns are Related to large-scale and coarse-grained design Related to small-scale and coarse-grained design both none

Answer: Related to large-scale and coarse-grained design

106) Architectural Patterns are applied during the early iterations applied during the post iterations both

Answer: applied during the early iterations

107) Design Patterns are small and medium-scale design of objects and frameworks large and medium-scale design of objects and frameworks both none

Answer: small and medium-scale design of objects and frameworks

108) Design Patterns are

Applicable to designing a solution for connecting the small scale elements Applicable to designing a solution for connecting the large scale elements both none

Answer: both

109) Design Patterns are Done during detailed design work after architectural design is

â€~solid.'

TRUE FALSE partially true partially false

Answer: true

110) Design patterns are sometimes known as architectural patterns.

TRUE FALSE partially true partially false

Answer: true

111) Design Patterns are groups of objects and their relationships designed to support a

â€~good object design'

TRUE FALSE no idea no option

Answer: true

112) What is â€~good object design?'

yields high cohesion of our objects

has low coupling between our objects

both

none

Answer: both

113) All design involves making decisions

TRUE FALSE no idea no option

Answer: yes

114) Good object design do not involves the assignment of object responsibilities.

TRUE FALSE no idea no option

Answer: false

115) Deciding what methods belong where and how objects interact (their relationships) is

critically important and trivial

critically important and NOT trivial

both

none

Answer: critically important and trivial

116) Patterns that help protect other objects from unanticipated access immutable and read-only interfaces immutable and not read-only interfaces both none

Answer: immutable and read-only interfaces

117) Patterns where you use delegation to gain access to Adaptor
Façade
Proxy pattern
all

Answer: facade

118) Patterns that assist us in separating concerns

observer singleton iterator facade

Answer: facade

119) A pattern is the outline of a reusable solution to a general problem encountered in a particular context

TRUE FALSE- A

Answer: true

120) A pattern is the outline of a reusable solution to a specific problem encountered in a particular context

TRUE FALSE- B

Answer: true

121) A pattern is the outline of a reusable solution to a specific problem encountered in a general context

TRUE FALSE- B

Answer: true

122) A pattern is the outline of a reusable solution to a general problem encountered in a

general context

TRUE FALSE- B

Answer: true

123) A good pattern should Be as general as possible Be as specific as possible

Α

Answer: Be as general as possible

124) Pattern contain a solution that has been proven to effectively solve the problem in the indicated context.

Good pattern
Not good pattern
General pattern
Not general pattern

Answer: Good pattern

125) Studying patterns is an effective way to learn from --the experience of others
the experience of project manager
the experience of the team laeder
the experience of design team only

Answer: the experience of others

126) The general situation in which the pattern applies

contextproblem solution project

Answer: context

127) A short sentence or two raising the main difficulty.

contextproblem solution project

Answer: solution (not sure)

128) The issues or concerns to consider when solving the problem

forces problem solution project

Answer: forces

129) The recommended way to solve the problem in the given context.

contextproblem solution project

Answer: solution

130) Solutions that are inferior or do not work in this context. Antipatterns Related patterns references domain

Answer: Antipatterns

131) Patterns that are similar to this pattern.

Antipatterns Related patterns co pattern domain

Answer: Related patterns

132) Who developed or inspired the pattern

Antipatterns References Related patterns Solution

Answer: 🤧

133) Creational Patterns

Factory method singleton prototype all

Answer: all

134) Structural Patterns

Adapter Proxy Facade all

Answer: all

135) patterns are a common design vocabulary

allows engineers to abstract a problem and talk about that abstraction in isolation from its implementation

embodies a culture; domain-specific patterns increase design speed

both

none

Answer: both

136) patterns capture design expertise and allow that expertise to be communicated promotes design reuse and promotes design reuse promotes design reuse promotes design reuse none

Answer: promotes design reuse

137) What are Benefits of using patterns improve documentation understandability both none

Answer: both

138) Iterator pattern that is supports concurrent iteration and element removal uniform interface for traversing many different data structures an object that provides a standard way to examine all elements of any collection all

Answer: all

139) Observer pattern is nothing but -objects whose state can be watched objects whose instance can be watched objects whose class can be watched objects whose interface can be watched

Answer: objects whose state can be watched

140) ----represent solutions to problems that arise when developing software within a particular context

Design software Design patterns Design hardware

Analysis patterns

Answer: Design patterns

141) Patterns capture the --- structure and collaboration among key participants in software

designs

static

Dynamic

A and B

None of above

Answer: static

142) Patterns facilitate ---- of successful software architectures and designs

Updating Addition Manipulate Reuse

Answer: Reuse

143) Application domain of Design patterns are CAD and CAE cellular network management and telecomm switches program visualization All of above

Answer: All of above

144) technical areas of Design patterns are user interface communications persistent objects
All of above

Answer: All of above

145) A Design Pattern do not Describes a recurring design structure with

identifies classes Encapsulation responsibilities Collaborations

Answer: identifies classes

146) A Design Pattern Describes a recurring design structure with applicability trade-offs consequences
All of above

Answer: all

147) In Design pattern what is content intent? objects/classes and their responsibilities situations where pattern can be applied Problem and Context scenario illustrates a design problem

Answer: Problem and Context

148) In the Design pattern what is motivation? objects/classes and their responsibilities situations where pattern can be applied Problem and Context the scenario illustrates a design problem

Answer: the scenario illustrates a design problem

149) In the Design pattern what is participants? objects/classes and their responsibilities situations where pattern can be applied Problem and Context scenario illustrates a design problem

Answer: objects/classes and their responsibilities

150) In Design pattern what is Applicability objects/classes and their responsibilities situations where pattern can be applied Problem and Context the scenario illustrates a design problem

Answer: situations where pattern can be applied

151) In Design pattern what is Structure? graphical representation of classes objects/classes and their responsibilities

how participants collaborate trade-offs and results

Answer: graphical representation of classes

152) In the Design pattern what are Collaborations for complex projects? graphical representation of classes objects/classes and their responsibilities how participants collaborate trade-offs and results

Answer: how participants collaborate

153) Which of the following is correct about Creational design patterns.

These design patterns are specifically concerned with communication between objects.

These design patterns provide a way to create objects while hiding the creation logic, rather than instantiating objects directly using new opreator.

These design patterns concern class and object composition. Concept of inheritance None of the above.

Answer: These design patterns concern class and object composition. Concept of inheritance

154) Which of the following pattern is used when we need to decouple an abstraction from its implementation so that the two can vary independently?

Bridge Pattern

Answer: Bridge Pattern

155) In Design pattern what is the Consequences for the life-critical project? graphical representation of classes objects/classes and their responsibilities how participants collaborate trade-offs and results

Answer: trade-offs and results