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CS504 QUIZ 1 SOLVED

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1. Thin Client Model is one of the configurations of ___ Model.

a) Data-centered

b) client server

c) Layered

d) Reference

2. STL Stands for___

a) standard template library

b) Standard Type Link

c) Standard Tempo Line

d) Standard Type Link

3. The three basic principles that guide maintainability are:

Clarity

Enhancement

Flexibility

Simplicity

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a) (a), (b) and (c)

b) (a), (c) and (d)

c) (b), (c) and (d)

d) All of above

4. Goto statements violate the idea of

a) object-oriented code

b) structured code

c) control structure

d) repetition structure

5. A function should not be larger in any case and should not exceed _____ in length

a) Half page

b) One page

c) Two pages

d) Three Pages

6. Data Centered Architectural Style is also called _____

a) Repository model

b) Client Server model

c) Sub System model

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d) Reference model

7. Global variables in C++ should always be referred to by using the

a) ::operator

b) :operator

c) Without an operator

d) None of the given

8. There are _layers in OSI reference model.

a) 5

b) 6

c) 7

d) 8

9. Fat Client Model is one of the configurations of ____ Model.

a) Data-centered

b) Layered

c) Reference

d) Client Server

10. Dynamic process model shows the process _____ of the System.

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- a) Components
- b) Objects
- c) Structure**
- d) Linkage

11. Which of the following shows a commented statement in C++

- a) # Ans = first + second
- b) // Ans = first + second**
- c) \\ Ans = first + second
- d) /# Ans = first + second

12. ___architectural model is widely used in Mainframe application.

- a) Client-Server Model
- b) Repository Model**
- c) Filter Model
- d) Layered Model

13. Variables should be initialized where they are ___ and they should be declared in the ___ scope possible.

- a) defined and smallest
- b) declared and medium

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c) defined and medium

d) declared and smallest

14. Identifier names also play a significant role in enhancing the_____ of a program,

a) Writ ability

b) Readability

c) Reliability

d) All of the given choices

15.MVC stands for_

a) Model View Controller

b) Modern View Center

c) Model View Center

d) Modern View Controller

16. Which of the following is not a possible server in client server environment?

a) Database Server

b) Transaction Server

c) File Server

d) Time Server

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17. In case of using unrelated operators in a single expression, _____ would be the best choice to prevent the logical errors.

- a) Comments
- b) Indents
- c) parenthesis**
- d) Short Cuts

18. In case of header files, construction is to avoid _____ errors, the constructions should appear in the top of the file (before the file header).

- a) Compilation**
- b) run time
- c) logical
- d) All of the given

19. A self-documenting code is a code that explains itself without the need of comments and extraneous documentation, like _____

- a) Flowcharts
- b) UML diagrams
- c) Process-flow state diagrams
- d) All of the given choices**

20. Which one of these represents the Krutchen's 4+1 architectural view model

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a) Logical view, Process view. Physical view. Development view. Usecase view

b) Logical view. Dynamic view. Physical view. Development view. Usecase view

c) Logical view. Process view, Physical view. Development view. Sequenceview

d) Dynamic view, Process view. Physical view, Development view. Usecase view

21. Client server is a _____ system model.

a) Integrated

b) Distributed

c) Heterogeneous

d) Homogeneous

22. Vertical partitioning is also known as _____

a) Balancing

b) Mutating

c) Parallelizing

d) Factoring

23. "is" prefix should be used for _____ variables and methods.

a) General

b) Boolean

c) Constant

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d) None of the given

24. Thin client model places a heavy processing load on_____

a) Only server

b) Only network

c) Both server and network

d) Neither server not network

25. C++ header files should have the extension_. Source files can have the extension_____

a) .c and .h

b) .cc and .h

c) .h and .cpp

d) All of the given

26. Which of following is among ten things, which the basic template of GOF design pattern includes.

a) IQ

b) context

c) Performance

d) Requirements

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27. Vertical partitioning divides the architecture application from a __makingperspective.

a) decision

b) Design

c) Conclusion

d) Move

28. Issues like system performance, availability, scalability, and security areanalyzed in_

a) Logical View

b) physical view

c) Code View

d) Concurrency View

29. Class variables should never be declared public. Public variables violate whichof the following:

a) Information hiding

b) Encapsulation

c) Information hiding and Encapsulation

d) None of the give

30. Charles Simonyi first discussed Hungarian Notation, He was of_

a) Microsoft

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- b) IBM
- c) Dell
- d) Cisco

31. Patterns are devices that allow programs to share knowledge about their ____

- a) Code
- b) design**
- c) Analysis
- d) Implementation

32. Process view in Krutchen's 4+1 architectural view model captures ____

- a) Object model of the design
- b) Concurrency and synchronization aspects of the design**
- c) Mapping(s) of the software onto the hardware and reflects its distributed aspect
- d) Static organization of the software in its development environment

33. In the N-Tire architecture, the idea is to enhance scalability and __ by disturbing both the data and the application using multiple server machines

- a) Usability
- b) performance**
- c) Interoperability

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d) Integrity

34. Names representing methods and functions should be ___ and written in mixed case starting with ___ case

a) Noun ___ lower

b) Verb ___ lower case

c) Noun ___ upper

d) Verb ___ upper

35. Floating point constant should always be written with decimal point and at

a) one decimal

b) Two decimals

c) Three decimals

d) none of the given

36. Static structural model shows the major system ___

a) Leaks

b) Components

c) Activates

d) Objectives

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37. Distributing the responsibilities to different subsystems so that we get a software system which is easy to maintain, is called_____ the architecture

a) Subtracting

b) partitioning

c) Cloning

d) Balancing

38. It ensures that a class only has one instance and provides a global point of access to it

a) singleton pattern

b) Observer pattern

c) Real pattern

d) None of the given

39. N-tier architecture stems from the struggle to find a_____ between the fat-client architecture and the thin client architecture

a) Concurrency

b) Distribution point

c) middle ground

d) Similarity

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40. In client server model, the application is modeled as a set of ___ that are provided by servers.

- a) Request
- b) Protocols
- c) service**
- d) Requirements

41. Maintainability and portability issues are discussed in ___

- a) Functional view
- b) Physical view
- c) code view**
- d) Logical view

42. In case of a file server, client request selected records from a ___ and the server transmits recorded to client over the network

- a) Local memory
- b) Network
- c) Database
- d) file**

43. Physical view in Krutchen's 4+1 architectural view model captures ____.

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- a) Object model of the design
- b) Concurrency and synchronization aspects of the design
- c) Mapping(s) of the software onto the hardware and reflects its distributed aspect**
- d) Static organization of the software in its development environment

44. Logical view in Krutchen's 4+1 architectural view model captures.

- a) Concurrency and synchronization aspects of the design
- b) Mapping(s) of the software onto the hardware and reflects its distributed aspect
- c) Object model of the design**
- d) Static organization of the software in its development environment

45. When programmers use shortcuts and cryptic codes in their program, _ becomes a major problem.

- a) Maintenance**
- b) Reusability
- c) Availability
- d) Readability

46. Which one is correct?

- a) double total = 0.5;**
- b) double total = .5;

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- c) double total = .50;
- d) all of the given

47. "Description of communicating objects and classes that are customized to solve a general design problem in a particular context" is called ____.

a) Design Pattern

- b) System Pattern
- c) System Design
- d) Design Method

48. Development view in Krutchen's 4+1 architectural view model captures

- a) Object model of the design
- b) Concurrency and synchronization aspects of the design
- c) Mapping(s) of the software onto the hardware and reflects its distributed aspect
- d) Static organization of the software in its development environment**

49. Client server model tries to ____ data and processing.

a) Distribute

- b) Merge
- c) Clone
- d) Proceed

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50. Which indent size eliminates the chance of code lines splitting?

a) 2

b) 4

c) 3

d) 6

51. Which one of these is a correct short cut used by the programmer?

a) $x^*=a$

b) $x=*a$

c) $x*a=$

d) $=a*x$

52. ___ was the first pure Object-Oriented language in which observer pattern was used in implementing its Model View Controller pattern

a) Smalltalk

b) PASCAL

c) JAVA

d) C++

53. Identify the TRUE statement

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a) Portability effects Security

b) Size of data types vary from one machine to other

c) Size of control structures vary from one machine to other

d) None of the given options

54. which of the following statements are same in output1) $a = a \gg 2$

2) $a = a/4$

3) $a = a * 2$

a) (1) and (3) only

b) (2) and (3) only

c) (1) and (2) only

d) All produce the same result

56. Code should not be:

a) Commented

b) indented

c) cryptic

d) aligned

57. If $!(\text{block} < \text{activeBlock})$ is equivalent to:

a) if $(\text{block} < \text{activeBlock})$

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b) if ((block == activeBlock))

c) if ((block >= activeBlock))

d) None of the given

58. The form for (; ;) should be used for

a) Nested loop

b) Empty loop

c) More than 1000 iteration

d) Less than 1000 iterations

59. The clients and servers, in a client server environment, are connected through ____.

a) Framework

b) Interface

c) Middleware

d) Groupware

60. ____ provides a unified interface to a set of intelligence in a sub-system

a) Observer pattern

b) Singleton pattern

c) Façade pattern

d) All of the above

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61. Complex expressions:

- a) Make the code easy to modify
- b) Make the code difficult to modify**
- c) Make the code easy to understand
- d) Does not affect understandability

62. Which of the following is used for multi-level commenting?

- a) // Comment
- b) /*Comment*/**
- c) (Comment)
- d) */Comment/*



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