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Marks 59.00/102.00

Grade 57.84 out of 100.00

Question 1

Incorrect

Mark 0.00 out of 1.00

_____ is type of software architecture in which subsystems can act both as a client or as servers that each subsystem can request and provide services.

- ☐ a. Pipe and Filter Architecture
- ☐ b. Client/ Server Architecture
- ☐ c. Central Repository Architecture
- ☒ d. Peer to Peer Architecture

✗

The correct answer is: Pipe and Filter Architecture

Question 2

Correct

Mark 1.00 out of 1.00

What kind of linked list is best to answer question like "What is the item at position n?"

- ☒ a. Array implementation of linked list
- ☐ b. Singly linked list
- ☐ c. Doubly linked list
- ☐ d. Circular linked list

✓

The correct answer is: Array implementation of linked list

Question **3**

Incorrect

Mark 0.00 out of 1.00

Which of the following sorting compares adjacent elements in a list and switches whenever necessary?

- ☒ a. Quick sort
- ☐ b. Bubble sort
- ☐ c. Selection sort
- ☐ d. None of the above



The correct answer is: Bubble sort

Question **4**

Incorrect

Mark 0.00 out of 1.00

Which of the following data structures is best suited for implementing a hash table?

- ☐ a. Stack
- ☐ b. Queue
- ☒ c. Linked list
- ☐ d. Array



The correct answer is: Array

Question **5**

Correct

Mark 1.00 out of 1.00

In database state update operation, INSERT operation may violate_____ constraints.

- ☒ a. Domain constraint
- ☐ b. Key constraint
- ☐ c. Entity integrity constraint
- ☐ d. All of the above



The correct answer is: Domain constraint

Question 6

Correct

Mark 1.00 out of 1.00

What is the purpose of responsive web design?

- ☐ a. To improve search engine optimization
- ☒ b. To enhance user experience across different devices
- ☐ c. To prevent cross-site scripting attacks
- ☐ d. To optimize website performance



The correct answer is: To enhance user experience across different devices

Question 7

Correct

Mark 1.00 out of 1.00

Which one of the following is Not an example of embedded software product?

- ☐ a. Keypad control of a security system
- ☐ b. Digital function of dashboard display in a car
- ☒ c. Pattern recognition
- ☐ d. Fire alarm System



The correct answer is: Pattern recognition

Question 8

Incorrect

Mark 0.00 out of 1.00

Which one of the following is not the output of the resource estimation process in project time management?

- ☐ a. Activity cost estimates
- ☐ b. resource breakdown structure
- ☐ c. activity resource requirements
- ☒ d. project documents updates



The correct answer is: Activity cost estimates

Question 9

Incorrect

Mark 0.00 out of 1.00

Which one of the following tool is commonly used in almost all project KA management processes?

- ☐ a. Expert judgment
- ☐ b. Project management information systems
- ☐ c. Brainstorming
- ☒ d. Management meeting

✗

The correct answer is: Expert judgment

Question 10

Incorrect

Mark 0.00 out of 1.00

For registration use case in the User Name field the system accepts 8 to 15 alpha characters. Using BVA technique _____ will be the possible input values for the test case.

- ☐ a. 8,9,15,16
- ☐ b. 7,8,14,15
- ☒ c. 8,9,10,15,16,17
- ☐ d. 7,8,9,14,15,16

✗

The correct answer is: 7,8,9,14,15,16

Question 11

Correct

Mark 1.00 out of 1.00

Which web development technology is used for creating dynamic and interactive web pages?

- ☐ a. HTML
- ☐ b. CSS
- ☒ c. JavaScript
- ☐ d. jQuery

✓

The correct answer is: JavaScript

Question **12**

Correct

Mark 1.00 out of 1.00

Which HTML element is used to display an image?

- ☐ a. <image>
- ☒ b.
- ☐ c. <picture>
- ☐ d. <figure>



The correct answer is:

Question **13**

Incorrect

Mark 0.00 out of 1.00

_____ is software design describing how the software elements, hardware elements, and end-users communicate with one another.

- ☒ a. Architectural Design
- ☐ b. Component level Design
- ☐ c. Interface Design
- ☐ d. Detailed Design



The correct answer is: Interface Design

Question **14**

Incorrect

Mark 0.00 out of 1.00

How is time complexity measured?

- ☐ a. By counting number of operations on a given input size
- ☐ b. By counting the input data size
- ☐ c. By counting the number of algorithm
- ☒ d. All of the above mentioned



The correct answer is: By counting number of operations on a given input size

Question **15**

Correct

Mark 1.00 out of 1.00

Which one of the following best defines Artificial Intelligence (AI)?

- ☐ a. AI is a field of study that aims to solve repetitive tasks.
- ☐ b. AI is a field of study that aims to make humans more intelligent.
- ☒ c. AI is a field of study that aims to make intelligent machines and systems.
- ☐ d. AI is a field of study that aims to enhance machine performance.



The correct answer is: AI is a field of study that aims to make intelligent machines and systems.

Question **16**

Incorrect

Mark 0.00 out of 1.00

In a graph of n nodes and n edges, how many cycles will be present?

- ☒ a. At most 1
- ☐ b. At most 2
- ☐ c. Depends on the graph
- ☐ d. Exactly 1



The correct answer is: Exactly 1

Question **17**

Incorrect

Mark 0.00 out of 1.00

Requirement approval and customer sign-off must be conducted before the project starts, this type of r/ship is?

- ☒ a. External dependency
- ☐ b. Discretionary dependency
- ☐ c. Mandatory dependency
- ☐ d. All



The correct answer is: Mandatory dependency

Question **18**

Correct

Mark 1.00 out of 1.00

Which of the following is not a basic data type in C++?

- ☐ a. int
- ☐ b. float
- ☐ c. char
- ☒ d. decimal



The correct answer is: decimal

Question **19**

Correct

Mark 1.00 out of 1.00

Routers and core switch can be used for delivering routing services. According to the OSI reference model to which layer do you categorize this network devices?

- ☐ a. Physical Layer
- ☐ b. Data Link Layer
- ☐ c. Network Layer
- ☒ d. Transport Layer



The correct answer is: Transport Layer

Question **20**

Correct

Mark 1.00 out of 1.00

Which one of the following is a good practice during requirement change management process?

- ☐ a. Communicate changes only for requirement designer, because next step is software design
- ☐ b. Remove inconsistent requirements from a system
- ☒ c. Documenting and Tracking changes to requirement
- ☐ d. None



The correct answer is: Documenting and Tracking changes to requirement

Question **21**

Incorrect

Mark 0.00 out of 1.00

_____ states primary key value must not be null value.

- ☐ a. Entity integrity
- ☐ b. Domain integrity
- ☒ c. Unique
- ☐ d. All

✗

The correct answer is: Entity integrity

Question **22**

Correct

Mark 1.00 out of 1.00

What is the maximum number of return values that can be returned from a C++ function?

- ☒ a. One
- ☐ b. Two
- ☐ c. Three
- ☐ d. Unlimited

✓

The correct answer is: One

Question **23**

Incorrect

Mark 0.00 out of 1.00

In which HTML element, we put the JavaScript code?

- ☐ a. `<javascript>...</javascript>`
- ☒ b. `<js>...</js>`
- ☐ c. `<script>...</script>`
- ☐ d. `<css>...</css>`

✗

The correct answer is: `<script>...</script>`

Question **24**

Correct

Mark 1.00 out of 1.00

Which of the following are not the concerns of AI that confront society?

- ☐ a. Inequality
- ☐ b. Bias
- ☐ c. Security and privacy
- ☒ d. None of these



The correct answer is: None of these

Question **25**

Incorrect

Mark 0.00 out of 1.00

What is a common method for preventing buffer overflow vulnerabilities in software?

- ☐ a. Implementing proper input validation
- ☐ b. Allowing unlimited input
- ☒ c. Using weak encryption
- ☐ d. Ignoring security patches



The correct answer is: Implementing proper input validation

Question **26**

Correct

Mark 1.00 out of 1.00

In case of a large search space, which search strategy would be preferred?

- ☐ a. Adversarial search
- ☒ b. Informed search
- ☐ c. Uninformed search
- ☐ d. None of the above



The correct answer is: Informed search

Question **27**

Correct

Mark 1.00 out of 1.00

Which of the following data structures is best suited for implementing a priority queue?

- ☒ a. Heap
- ☐ b. Array
- ☐ c. Stack
- ☐ d. Linked list



The correct answer is: Heap

Question **28**

Correct

Mark 1.00 out of 1.00

Among the event handling mechanisms in android, which option is better to handle more complex kinds of events

- ☐ a. Using the xml onclick attribute
- ☒ b. Using event listener interfaces
- ☐ c. Using the java onclick listener
- ☐ d. All of the above



The correct answer is: Using event listener interfaces

Question **29**

Correct

Mark 1.00 out of 1.00

Which of the following can be a multivalued attribute?

- ☒ a. Phone-number
- ☐ b. Name
- ☐ c. Date-of-birth
- ☐ d. Age



The correct answer is: Phone-number

Question **30**

Correct

Mark 1.00 out of 1.00

Which of the following is a C++ operator used for multiplication?

- ☒ a. *
- ☐ b. .
- ☐ c. /
- ☐ d. +



The correct answer is: *

Question **31**

Correct

Mark 1.00 out of 1.00

The structural evolutionary prototyping model of software development process is

- ☐ a. The best approach to use for projects with large development teams
- ☐ b. It is not important for creating awareness of additional needed functionality
- ☐ c. A reasonable approach when requirement is well defined
- ☒ d. A useful approach when a customer cannot define requirements clearly



The correct answer is: A useful approach when a customer cannot define requirements clearly

Question **32**

Incorrect

Mark 0.00 out of 1.00

Among the following, one is the scope of product development life cycle (PDLC)?

- ☐ a. Project resource
- ☐ b. Cost
- ☒ c. Schedule
- ☐ d. System design



The correct answer is: System design

Question **33**

Incorrect

Mark 0.00 out of 1.00

Which of the following statement is false about round robin scheduling algorithm.

- ☐ a. Characterized by using quantum number for the scheduling
- ☐ b. Characterized by its non-preemptive nature.
- ☒ c. Have higher Context switch overhead.
- ☐ d. It's the fairest algorithm and most widely used algorithm.

✗

The correct answer is: Characterized by its non-preemptive nature.

Question **34**

Incorrect

Mark 0.00 out of 1.00

In a system using virtual memory, the physical memory is divided into _____ and the virtual address space is divided in into equally-sized partitions called _____.

- ☐ a. Pages, Page frames
- ☐ b. Page frames, pages
- ☒ c. Segment, page
- ☐ d. Page, Segment

✗

The correct answer is: Page frames, pages

Question **35**

Incorrect

Mark 0.00 out of 1.00

Which one of the followings is/are Incorrect about first normal forms?

- ☐ a. It is used to disallow the multivalued attributes
- ☒ b. Composite attributes cannot be used in 1NF
- ☐ c. Relations can be created in a relation
- ☐ d. The only attribute values allowed are atomic values

✗

The correct answer is: Relations can be created in a relation

Question **36**

Correct

Mark 1.00 out of 1.00

What is the role of back-end technology in web development?

- ☐ a. To handle client-side operations and user interactions
- ☐ b. To implement the visual design of a website
- ☐ c. To ensure compatibility across different web browsers
- ☒ d. To manage server-side operations and database interactions



The correct answer is: To manage server-side operations and database interactions

Question **37**

Incorrect

Mark 0.00 out of 1.00

Which class does the IP address 172.16 1.20 belongs to?

- ☐ a. Class C
- ☐ b. Class D
- ☒ c. Class A
- ☐ d. Class B



The correct answer is: Class B

Question **38**

Incorrect

Mark 0.00 out of 1.00

Alpha testing is:

- ☒ a. Post-release testing by end user representatives at the developer's site
- ☐ b. Post-release testing by testing team at the developer's site
- ☐ c. Pre-release testing by end user representatives at their sites
- ☐ d. Pre-release testing by testing team at the developer's site



The correct answer is: Pre-release testing by testing team at the developer's site

Question **39**

Correct

Mark 1.00 out of 1.00

A started service will in a running state when one of the following service life cycle method is invoked

- ☒ a. onStartCommand()
- ☐ b. onBind()
- ☐ c. startService()
- ☐ d. bindService()



The correct answer is: onStartCommand()

Question **40**

Incorrect

Mark 0.00 out of 1.00

Which one of the following is Not True?

- ☐ a. Coupling is the level of inter-dependability among modules.
- ☐ b. Cohesive module focuses on a single function.
- ☐ c. If two modules are tightly coupled, one can function completely without the presence of other.
- ☒ d. Abstraction is the process of creating a detailed design specification for each component of a system.



The correct answer is: If two modules are tightly coupled, one can function completely without the presence of other.

Question **41**

Incorrect

Mark 0.00 out of 1.00

Which of the following statements is Not correct?

- ☐ a. A test set that achieves 100% branch coverage will also achieve 100% statement coverage.
- ☒ b. A minimal test set that achieves 100% branch coverage will generally detect more faults than one that achieves 100% statement coverage.
- ☐ c. A minimal test set that achieves 100% statement coverage will generally detect more faults than one that achieves 100% branch coverage
- ☐ d. None



The correct answer is: A minimal test set that achieves 100% statement coverage will generally detect more faults than one that achieves 100% branch coverage

Question **42**

Incorrect

Mark 0.00 out of 1.00

What is the purpose of threat modeling in software security?

- ☐ a. To identify potential threats and vulnerabilities in software
- ☐ b. To test the functionality of the software
- ☒ c. To validate the software against industry standards
- ☐ d. To document the software for future reference

✗

The correct answer is: To identify potential threats and vulnerabilities in software

Question **43**

Incorrect

Mark 0.00 out of 1.00

For some relations, changing the data can have undesirable consequences called

- ☐ a. Referential integrity constraints
- ☐ b. Modification anomalies
- ☒ c. Normal forms
- ☐ d. Transitive dependencies

✗

The correct answer is: Modification anomalies

Question **44**

Incorrect

Mark 0.00 out of 1.00

The _____ operation, allows us to find tuples that are in one relation but are not in another.

- ☐ a. Union
- ☐ b. Set-difference
- ☒ c. Difference
- ☐ d. Intersection

✗

The correct answer is: Set-difference

Question **45**

Correct

Mark 1.00 out of 1.00

What is a typical threat to software security?

- ☐ a. User error
- ☐ b. Hardware failure
- ☐ c. Power outage
- ☒ d. Malware



The correct answer is: Malware

Question **46**

Correct

Mark 1.00 out of 1.00

What does the following relational algebra expression do? $\sigma_{\text{amount} > 1200}(\text{Loan})$

- ☐ a. Finds all the tuples in Loan
- ☐ b. Retrieve the amount attribute in Loan where the amount is greater than 1200
- ☒ c. Finds all the tuples in Loan where the amount is greater than 1200
- ☐ d. All are answer



The correct answer is: Finds all the tuples in Loan where the amount is greater than 1200

Question **47**

Correct

Mark 1.00 out of 1.00

Variables defined inside methods, constructors or blocks are called ____.

- ☒ a. Local variables
- ☐ b. Instance variables
- ☐ c. Class variables
- ☐ d. All



The correct answer is: Local variables

Question **48**

Correct

Mark 1.00 out of 1.00

_____ is a process in which an overridden method is called through the reference variable of super class.

- ☐ a. Method overloading
- ☒ b. Method overriding
- ☐ c. Inheritance
- ☐ d. Applet



The correct answer is: Method overriding

Question **49**

Incorrect

Mark 0.00 out of 1.00

What is the purpose of the << operator in C++?

- ☐ a. To input data from the keyboard
- ☐ b. To output data to the console
- ☒ c. To perform a logical AND operation
- ☐ d. None of the above



The correct answer is: To output data to the console

Question **50**

Correct

Mark 1.00 out of 1.00

_____ is a description of a kind of object.

- ☒ a. Class
- ☐ b. String
- ☐ c. Inheritance
- ☐ d. Method



The correct answer is: Class

Question **51**

Correct

Mark 1.00 out of 1.00

Open System Interconnection model is an example of _____ architecture.

- ☐ a. MVC
- ☐ b. Pipe and filter
- ☒ c. Layered
- ☐ d. Client-server



The correct answer is: Layered

Question **52**

Incorrect

Mark 0.00 out of 1.00

Which protocol is commonly used in the client-server architecture for web-based applications?

- ☒ a. Simple Mail Transfer Protocol (SMTP)
- ☐ b. Hyper Text Transfer Protocol (HTTP)
- ☐ c. File Transfer Protocol (FTP)
- ☐ d. Network News Transfer Protocol (NNTP)



The correct answer is: Hyper Text Transfer Protocol (HTTP)

Question **53**

Correct

Mark 1.00 out of 1.00

Which of the following cable can be used to interconnect two computers for formulating peer to peer network?

- ☐ a. Straight through cable
- ☐ b. Console cable
- ☐ c. Coaxial cable
- ☒ d. Cross over cable



The correct answer is: Cross over cable

Question **54**

Correct

Mark 1.00 out of 1.00

Which of the following is used to execute a specific block of code based on the value of a variable or expression in C++?

- ☐ a. if statement
- ☒ b. switch statement
- ☐ c. else statement
- ☐ d. for loop



The correct answer is: switch statement

Question **55**

Correct

Mark 1.00 out of 1.00

Which one of the following is an example of stakeholder in requirement engineering?

- ☐ a. A software Developer
- ☐ b. A project Manager
- ☐ c. An end user of system
- ☒ d. All



The correct answer is: All

Question **56**

Correct

Mark 1.00 out of 1.00

Which of the following is not a type of loop in C++?

- ☐ a. while loop
- ☐ b. for loop
- ☒ c. repeat loop
- ☐ d. do-while loop



The correct answer is: repeat loop

Question **57**

Correct

Mark 1.00 out of 1.00

Which design pattern is commonly used in the client-server architecture to decouple the client application from server-specific implementation details?

- ☐ a. Factory Method Pattern
- ☐ b. Decorator Pattern
- ☒ c. Adapter Pattern
- ☐ d. Facade Pattern



The correct answer is: Adapter Pattern

Question **58**

Incorrect

Mark 0.00 out of 1.00

The part of operating system that is responsible for managing the memory hierarchy in computer system is called _____

- ☒ a. Memory Management Unit
- ☐ b. Memory Manager
- ☐ c. Translation Look aside Buffer
- ☐ d. Memory abstraction unit



The correct answer is: Memory Manager

Question **59**

Correct

Mark 1.00 out of 1.00

The android.graphics package has support for

- ☐ a. Canvas
- ☐ b. Bitmap
- ☐ c. Paints
- ☒ d. All of the above



The correct answer is: All of the above

Question **60**

Correct

Mark 1.00 out of 1.00

Which component in the Model-View-Controller (MVC) architectural pattern is responsible for interacting with the data source?

- ☒ a. Model
- ☐ b. View
- ☐ c. Controller
- ☐ d. Middleware



The correct answer is: Model

Question **61**

Correct

Mark 1.00 out of 1.00

If a class has multiple methods having the same name but different parameters, it is called _____.

- ☐ a. Inheritance
- ☐ b. Applet
- ☐ c. Method overriding
- ☒ d. Method overloading



The correct answer is: Method overloading

Question **62**

Correct

Mark 1.00 out of 1.00

A diagramming analysis technique used to select the best course of action when future outcomes are uncertain is?

- ☐ a. Impact matrix
- ☐ b. Critical chain scheduling
- ☒ c. Decision tree
- ☐ d. Gant chart



The correct answer is: Decision tree

Question **63**

Incorrect

Mark 0.00 out of 1.00

As _____ operating system is responsible for allocating resources to the various applications so that access to the resources is synchronized and operations are correct and consistent.

- ☐ a. An extended machine
- ☐ b. A resource manager
- ☒ c. A virtual Machine
- ☐ d. A multiplexer

✗

The correct answer is: A resource manager

Question **64**

Correct

Mark 1.00 out of 1.00

Which of the following is limitations of the manual approach?

- ☐ a. Data dependency on the application
- ☐ b. Lengthy development and maintenance time
- ☐ c. Duplication or redundancy of data
- ☒ d. All

✓

The correct answer is: All

Question **65**

Correct

Mark 1.00 out of 1.00

An entity that does not have a key attribute and that is identification-dependent on another entity type:

- ☐ a. Entity type
- ☒ b. Weak entity type
- ☐ c. Relationship type
- ☐ d. Relation

✓

The correct answer is: Weak entity type

Question **66**

Incorrect

Mark 0.00 out of 1.00

Which design pattern is used to provide a way of handling a request by passing it through a series of handlers until it is handled or rejected?

- ☒ a. Bridge Pattern
- ☐ b. Chain of Responsibility Pattern
- ☐ c. Command Pattern
- ☐ d. Builder Pattern



The correct answer is: Chain of Responsibility Pattern

Question **67**

Correct

Mark 1.00 out of 1.00

The main concern of performance quality attributes is _____.

- ☐ a. Fault recovery
- ☒ b. Latency
- ☐ c. Resource management
- ☐ d. Reducing coupling



The correct answer is: Latency

Question **68**

Incorrect

Mark 0.00 out of 1.00

Which of the following is a type of function that is expanded in place at the point of call in C++?

- ☒ a. Static function
- ☐ b. Inline function
- ☐ c. Virtual function
- ☐ d. External function



The correct answer is: Inline function

Question **69**

Correct

Mark 1.00 out of 1.00

Which of the following is an example of a back-end technology?

- ☐ a. CSS
- ☐ b. JavaScript
- ☒ c. PHP
- ☐ d. Bootstrap



The correct answer is: PHP

Question **70**

Correct

Mark 1.00 out of 1.00

During a software testing process, what happened if an expected result is not specified

- ☐ a. It may be difficult to run the test
- ☒ b. It may be difficult to determine if the test has passed or failed
- ☐ c. We cannot automate the user input values
- ☐ d. We cannot determine the actual result



The correct answer is: It may be difficult to determine if the test has passed or failed

Question **71**

Incorrect

Mark 0.00 out of 1.00

Which one of the following is true?

- ☐ a. Manual testing uses automation tools to execute test cases.
- ☒ b. No need for programming skills in automation testing.
- ☐ c. Manual testing is suitable for exploratory testing
- ☐ d. The initial investment in Automation testing is lower than in manual testing.



The correct answer is: Manual testing is suitable for exploratory testing

Question **72**

Incorrect

Mark 0.00 out of 1.00

_____ states primary key value must not be null value.

- ☐ a. Entity integrity
- ☐ b. Domain integrity
- ☒ c. Unique
- ☐ d. All

✗

The correct answer is: Entity integrity

Question **73**

Incorrect

Mark 0.00 out of 1.00

The TCP port number 23 describes about the _____

- ☒ a. Transmission of file from one client to the other one at the presence of FTP service
- ☐ b. Hyper Text Transfer Protocol service
- ☐ c. The mailing service delivered by using the SMTP
- ☐ d. Remote login capability which can be achieved by using the telnet

✗

The correct answer is: Remote login capability which can be achieved by using the telnet

Question **74**

Correct

Mark 1.00 out of 1.00

Unsupervised learning methods can be used in which one of the following scenarios?

- ☒ a. Given a set of news articles found on the web, group them into a set of articles about the same story.
- ☐ b. Given a dataset of reviews of Netflix movie series marked as positive, negative and neutral, classify reviews of a new Netflix movie series.
- ☐ c. Given a dataset of emails labeled as spam or not spam, and classify new incoming emails to their right classes.
- ☐ d. Given a dataset of patients diagnosed as either having diabetes or not, learn to classify new patients as having diabetes or not.

✓

The correct answer is: Given a set of news articles found on the web, group them into a set of articles about the same story.

Question **75**

Incorrect

Mark 0.00 out of 1.00

Among the reasons that lead to deadlock in operating system which one is used to be solution for the inter process communication problem?

- ☒ a. Hold and Wait Condition
- ☐ b. Mutual exclusion
- ☐ c. No preemption
- ☐ d. Circular wait

✗

The correct answer is: Mutual exclusion

Question **76**

Correct

Mark 1.00 out of 1.00

The TCP/IP Host to Host network layer corresponds to the _____ layer of the OSI reference model

- ☐ a. Physical
- ☐ b. Physical and Data Link
- ☐ c. Network
- ☒ d. Transport

✓

The correct answer is: Transport

Question **77**

Incorrect

Mark 0.00 out of 1.00

Identify the slowest sorting technique among the following?

- ☒ a. Merge sort
- ☐ b. Selection sort
- ☐ c. Quick sort
- ☐ d. Bubble sort

✗

The correct answer is: Bubble sort

Question **78**

Correct

Mark 1.00 out of 1.00

What is the primary goal of software security?

- ☐ a. To make software faster
- ☐ b. To make software more user-friendly
- ☒ c. To prevent unauthorized access and protect against attacks
- ☐ d. To make software cheaper



The correct answer is: To prevent unauthorized access and protect against attacks

Question **79**

Correct

Mark 1.00 out of 1.00

Which one of the following is not true about an intelligent agent?

- ☒ a. The intelligent agent needs user input for solving any problem.
- ☐ b. The intelligent agent can be an autonomous entity.
- ☐ c. The intelligent agent is the rational agent.
- ☐ d. The intelligent agents can solve a problem on its own without any human intervention



The correct answer is: The intelligent agent needs user input for solving any problem.

Question **80**

Correct

Mark 1.00 out of 1.00

What is the purpose of a security policy?

- ☐ a. To prevent all security breaches from occurring
- ☒ b. To provide guidance on how to protect information assets
- ☐ c. To guarantee complete security of all information assets
- ☐ d. To restrict access to all information assets



The correct answer is: To provide guidance on how to protect information assets

Question **81**

Incorrect

Mark 0.00 out of 1.00

Suppose you have a function that takes in a list of integers and returns the maximum value in the list. The function also prints a message to the console with the maximum value. How many test cases do you need to achieve 100% statement coverage?

- ☐ a. at least two test cases
- ☐ b. 1
- ☐ c. at least three test cases
- ☒ d. Maximum of 3

✗

The correct answer is: at least two test cases

Question **82**

Correct

Mark 1.00 out of 1.00

Which of the following is not the application of data structure?

- ☐ a. Numerical analysis
- ☐ b. Operating system
- ☐ c. Compiler design
- ☒ d. None of the above mentioned

✓

The correct answer is: None of the above mentioned

Question **83**

Incorrect

Mark 0.00 out of 1.00

When the switch statement matches the expression with the given labels, how is the comparison done?

- ☐ a. Both the datatype and the result of the expression are compared.
- ☐ b. Only the datatype of the expression is compared
- ☒ c. Only the value of the expression is compared
- ☐ d. None of the above

✗

The correct answer is: Both the datatype and the result of the expression are compared.

Question **84**

Correct

Mark 1.00 out of 1.00

Which one of the following is not an application of AI?

- ☐ a. Computer Vision
- ☐ b. Expert System
- ☒ c. Database Management System
- ☐ d. Natural Language Processing



The correct answer is: Database Management System

Question **85**

Correct

Mark 1.00 out of 1.00

Which design principle suggests that software should be designed in such a way that the different components can be easily changed without affecting other components?

- ☐ a. Abstraction
- ☒ b. Low coupling
- ☐ c. Separation of concerns
- ☐ d. High cohesion



The correct answer is: Low coupling

Question **86**

Correct

Mark 1.00 out of 1.00

Which one of the following is a Not a characteristic of good design?

- ☐ a. software engineer must design the modules with the goal of high cohesion and low coupling
- ☒ b. A software engineer must design the modules with the goal of low cohesion and high coupling
- ☐ c. A design must implement all explicit requirements from the analysis model and accommodate all implicit requirements desired by the user
- ☐ d. A good design should be modular



The correct answer is: A software engineer must design the modules with the goal of low cohesion and high coupling

Question **87**

Incorrect

Mark 0.00 out of 1.00

Among the following which one is not reasons for introducing the concepts of EER model?

- ☐ a. It avoids describing similar concepts more than once.
- ☒ b. It adds more semantic information to the design.
- ☐ c. Handle complex systems
- ☐ d. None

✗

The correct answer is: None

Question **88**

Correct

Mark 1.00 out of 1.00

One of the following is not true about project risk management, which one is it?

- ☒ a. Positive risks are known as threats
- ☐ b. Risk management can have positive impact on selecting projects
- ☐ c. Risk management can often result in significant improvements in the ultimate success of projects
- ☐ d. All

✓

The correct answer is: Positive risks are known as threats

Question **89**

Incorrect

Mark 0.00 out of 1.00

The string _____ method compares values lexicographically and returns an integer value.

- ☐ a. compareTo()
- ☐ b. ==
- ☐ c. Equals()
- ☒ d. All

✗

The correct answer is: compareTo()

Question **90**

Correct

Mark 1.00 out of 1.00

Which of the following is time multiplexed resource?

- ☐ a. Memory
- ☒ b. CPU
- ☐ c. Network
- ☐ d. Compact Disk



The correct answer is: CPU

Question **91**

Incorrect

Mark 0.00 out of 1.00

Which one of the followings is/are Incorrect about first normal forms?

- ☐ a. It is used to disallow the multivalued attributes
- ☒ b. Composite attributes cannot be used in 1NF
- ☐ c. Relations can be created in a relation
- ☐ d. The only attribute values allowed are atomic values



The correct answer is: Relations can be created in a relation

Question **92**

Incorrect

Mark 0.00 out of 1.00

Which of the following is Not categorized under Product Operation of McCall's Software Quality Factors?

- ☒ a. Efficiency
- ☐ b. Reliability
- ☐ c. Reusability
- ☐ d. Integrity



The correct answer is: Reusability

Question **93**

Correct

Mark 1.00 out of 1.00

In android studio, the file which contains list of application permissions and configuration is

- ☐ a. Layout
- ☐ b. strings
- ☒ c. android manifest
- ☐ d. Gradle



The correct answer is: android manifest

Question **94**

Correct

Mark 1.00 out of 1.00

In android studio file structure, the file which is used to register minSdk, targetSdk and app dependencies is

- ☐ a. Settings.gradle
- ☒ b. Build.gradle
- ☐ c. Strings
- ☐ d. Android manifest



The correct answer is: Build.gradle

Question **95**

Correct

Mark 1.00 out of 1.00

What is the purpose of vulnerability scanning in software security?

- ☒ a. To identify potential vulnerabilities in software
- ☐ b. To test the functionality of the software
- ☐ c. To validate the software against industry standards
- ☐ d. To document the software for future reference



The correct answer is: To identify potential vulnerabilities in software

Question **96**

Correct

Mark 1.00 out of 1.00

With use of extends keyword the subclasses will be able to inherit all the properties of the super class except ____.

- ☒ a. Private
- ☐ b. Protected
- ☐ c. Public
- ☐ d. Default



The correct answer is: Private

Question **97**

Correct

Mark 1.00 out of 1.00

The model which would use the divide and conquer approach is _____.

- ☐ a. Evolutionary Development Model
- ☐ b. Waterfall Model
- ☒ c. Incremental Development Model
- ☐ d. Prototyping



The correct answer is: Incremental Development Model

Question **98**

Incorrect

Mark 0.00 out of 1.00

Which of the following network topology is referenced as an active network topology?

- ☐ a. Bus Topology
- ☒ b. Star Topology
- ☐ c. Mesh Topology
- ☐ d. Ring Topology



The correct answer is: Ring Topology

Question **99**

Correct

Mark 1.00 out of 1.00

An android component which listens to android system wide events and notifies the arrival of a new message can be

- ☐ a. Content provider
- ☐ b. Service
- ☒ c. Broadcast receiver
- ☐ d. Activity



The correct answer is: Broadcast receiver

Question **100**

Incorrect

Mark 0.00 out of 1.00

Which of the following is not a requirement for a C++ function to be recursive?

- ☒ a. Base case
- ☐ b. Recursive case
- ☐ c. Functions that call themselves
- ☐ d. Dynamic variables



The correct answer is: Dynamic variables

Question **101**

Correct

Mark 1.00 out of 1.00

ISO 9000 helps to

- ☐ a. demonstrates a commitment to customer requirements.
- ☐ b. Increased control of operations
- ☐ c. improve customer satisfaction.
- ☒ d. All



The correct answer is: All

Question **102**

Correct

Mark 1.00 out of 1.00

Which technology is used for real-time communication and data transfer between web browsers and servers?

- ☒ a. AJAX
- ☐ b. JSON
- ☐ c. REST
- ☐ d. WebSocket



The correct answer is: AJAX

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