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Time taker	
	6 1.00/150.00
	40.67 out of 100.00
	10107 04101 100.00
Question 1	
Correct	
Mark 1.00 out of 1.00	
Data Definition la	aguaga (DDI) is not to:
Data Delimition la	nguage (DDL) is not to:-
a Alter tabl	e in the database
b. Rename t	
	formation table in the database
d. Truncate	tuples in the table 🗸
Question 2	
Incorrect	
Mark 0.00 out of 1.00	
Commenter	had the committee of the best the committee of the control of the
Concentrates on v	what the user does, not what the product does is
a. Validation	Tasting X
b. Fault-Bas	
c. Scenario-	
d. Random	Class Testing
Question 3	
Incorrect	
Mark 0.00 out of 1.00	
Which of the follo	wing is NOT a common technique used for software requirement validation?
Willelf Of the folio	wing is 1401 a common technique used for software requirement validation:
a. Reviews v	vith stakeholders
b. Prototypi	ng
	rface mockups ×
d. Unit testi	
G. Offictesti	' '

Question 4
Incorrect
Mark 0.00 out of 1.00
Which of the following statements not true?
 a. A protected member of a class can be accessed from its derived class. X
b. A private member of a class cannot be accessed from its derived class
c. A public member of a class can be accessed in all the packagesd. A private member of a class cannot be accessed by the methods of the same class
u. A private member of a class cannot be accessed by the methods of the same class
Question 5
Incorrect
Mark 0.00 out of 1.00
What is the time complexity of binary search in the worst case?
○ a. O(n log n)
● b. O > ×
o. O(1)
○ d. O(log n)
Question 6
Correct
Mark 1.00 out of 1.00
Which operator is used for assignment in C++?
○ b. /=
○ c. ==
○ d. +=
_
Question 7
Incorrect Mark 0.00 out of 1.00
Which of the following is not a typical operation that can be defined for an ADT?
○ a. Delete
○ b. Search
○ c. Insert

Question 8	
Correct	
Mark 1.00 d	out of 1.00
Which	one of the following requirements could represent a functional requirement?
VVIIICIT	one of the following requirements could represent a functional requirement:
a.	The user interface should be easy to navigate for beginners
b.	
O c.	The software should be accessible for users with disabilities
O d.	The software must be able to run on a Windows operating system
Question 9	
Incorrect	
Mark 0.00 d	out of 1 00
Width 0.00 V	
In First	order predicate logic a Statement contains
	Desirate and Describes V
	Predicate and Preposition ×
	Predicate and Subject
O c.	Subject and an Object
○ d.	True/False statement
Question 1	0
Incorrect	
Mark 0.00	out of 1.00
What is	s the role of a project manager in fostering effective communication within a software project team?
(a.	Restricting access to project information
b.	
	Avoiding team meetings
	Encouraging transparency and open dialogue ×
⊕ u.	Encouraging transparency and open dialogue A
Question 1	1
Correct	
Mark 1.00	out of 1.00
Which	subfield of Al is used for visual perception ?
a.	Speech recognition
	Computer vision ✓
	Computer vision v
_	Natural language processing
O C.	Natural language processing
	Natural language processing Reinforcement learning

Desiron 12 Incorrect		
The PEAS in the task environment is about	Question 12	
The PEAS in the task environment is about	Incorrect	
 a. Performance, Actuator, Sensor, Environment b. Perceiving, Environment, Actuator, Sensor × c. Peer, Environment, Actuator, Sensor d. Performance, Environment, Actuator, Sensor Correct Mark 1.00 out of 1.00 Suppose you have received a message from your friend but the message is scrambled for the sake of security. Your friend has used a program to encode messages into scrambled text, In, order to read the message which program would you use? a. Secret key b. Encryption program c. Plaintext d. Decryption program ✓ e. Cipher text Ouestion 14 Incorrect Mark 0.00 out of 1.00 How can you pass the value of a function by value in C++? a. By assigning the value to a global variable × 	Mark 0.00 out	t of 1.00
 a. Performance, Actuator, Sensor, Environment b. Perceiving, Environment, Actuator, Sensor × c. Peer, Environment, Actuator, Sensor d. Performance, Environment, Actuator, Sensor Correct Mark 1.00 out of 1.00 Suppose you have received a message from your friend but the message is scrambled for the sake of security. Your friend has used a program to encode messages into scrambled text, In, order to read the message which program would you use? a. Secret key b. Encryption program c. Plaintext d. Decryption program ✓ e. Cipher text Question 14 Incorrect Mark 0.00 out of 1.00 How can you pass the value of a function by value in C++? a. By assigning the value to a global variable × 		
 b. Perceiving, Environment, Actuator, Sensor X c. Peer, Environment, Actuator, Sensor d. Performance, Environment, Actuator, Sensor Question 13 Correct Mark 1.00 out of 1.00 Suppose you have received a message from your friend but the message is scrambled for the sake of security. Your friend has used a program to encode messages into scrambled text, In, order to read the message which program would you use? a. Secret key b. Encryption program c. Plaintext d. Decryption program ✓ e. Cipher text Question 14 Incorrect Mark 0.00 out of 1.00 How can you pass the value of a function by value in C++? a. By assigning the value to a global variable X 	The PEAS	in the task environment is about
 c. Peer, Environment, Actuator, Sensor d. Performance, Environment, Actuator, Sensor Question 13 Correct Mark 1.00 out of 1.00 Suppose you have received a message from your friend but the message is scrambled for the sake of security. Your friend has used a program to encode messages into scrambled text, In, order to read the message which program would you use? a. Secret key b. Encryption program c. Plaintext d. Decryption program ✓ e. Cipher text Question 14 Incorrect Mark 0.00 out of 1.00 How can you pass the value of a function by value in C++? a. By assigning the value to a global variable × 	○ a. l	Performance, Actuator, Sensor, Environment
Ouestion 13 Correct Mark 1.00 out of 1.00 Suppose you have received a message from your friend but the message is scrambled for the sake of security. Your friend has used a program to encode messages into scrambled text, In, order to read the message which program would you use? a. Secret key b. Encryption program c. Plaintext d. Decryption program ✓ e. Cipher text Ouestion 14 Incorrect Mark 0.00 out of 1.00 How can you pass the value of a function by value in C++? a. By assigning the value to a global variable ×	b. f	Perceiving, Environment, Actuator, Sensor ×
Ouestion 13 Correct Mark 1.00 out of 1.00 Suppose you have received a message from your friend but the message is scrambled for the sake of security. Your friend has used a program to encode messages into scrambled text, In, order to read the message which program would you use? a. Secret key b. Encryption program c. Plaintext d. Decryption program e. Cipher text Question 14 Incorrect Mark 0.00 out of 1.00 How can you pass the value of a function by value in C++? a. By assigning the value to a global variable ★	O c. 1	Peer, Environment, Actuator, Sensor
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program to encode messages into scrambled text, In, order to read the message which program would you use? a. Secret key b. Encryption program c. Plaintext d. Decryption program ✓ e. Cipher text Question 14 Incorrect Mark 0.00 out of 1.00 How can you pass the value of a function by value in C++? a. By assigning the value to a global variable ×	Mark 1.00 out	t of 1.00
Incorrect Mark 0.00 out of 1.00 How can you pass the value of a function by value in C++? a. By assigning the value to a global variable ×	b. Ic. Id. I	Encryption program Plaintext Decryption program
Mark 0.00 out of 1.00 How can you pass the value of a function by value in C++? a. By assigning the value to a global variable ×	Question 14	
How can you pass the value of a function by value in C++? ■ a. By assigning the value to a global variable ×	Incorrect	
 a. By assigning the value to a global variable × 	Mark 0.00 out	t of 1.00
 c. By passing the value directly as a function argument d. By declaring a pointer variable as a function parameter 	a. Ib. Ic. I	By assigning the value to a global variable × By using the "return" statement in the function By passing the value directly as a function argument

Question 1	9
Incorrect	
Mark 0.00 c	out of 1.00
Which	one of the following is not part of Toast.makeText method signature?
VVIIICII	one of the following is not part of loast.make lext
○ a.	message
	context
c.	time span ×
	none
Question 2	Λ
Correct	
Mark 1.00 c	out of 1.00
IVIAIR 1.00 C	Jul 61 1.00
What d	oes the term "float" refer to in project scheduling?
a.	The amount of time an activity can be delayed without delaying the project's finish date ✓
	The amount of time all activity can be delayed without delaying the project's initial date.
) b.	The difference between the planned and actual duration of an activity
O c.	
○ d.	The total time available for completing a project
Question 2	1
Correct	
Mark 1.00 c	out of 1.00
\\/bicb_"	resource is typically time multiplexed in an operating system?
VVIIICITI	resource is typically time multiplexed in an operating system:
a.	CPU ✓
b.	Memory
O c.	Compact Disk
	Network
- 2.,	
Question 2	2
Correct	
Mark 1.00 c	out of 1.00
Which i	is the following activities is NOT typically part of Goal Based Requirement Engineering?
	Unit testing the developed software V
a.	Unit testing the developed software Conducting intentions with stakeholders
○ b.	Conducting interviews with stakeholders
O c.	Decomposing high-level goals into subgoals
○ d.	Defining system functionalities

Question 23
Incorrect
Mark 0.00 out of 1.00
Which operator is used to increment a variable by a specific value in C++?
○ b. =
○ c. +=
○ d. *=
Question 24
Incorrect
Mark 0.00 out of 1.00
What is the primary purpose of a variance analysis in project cost management?
what is the primary purpose of a variance analysis in project cost management:
\odot a. To compare actual project performance against the planned performance $ imes$
b. To allocate additional resources to the project
c. To avoid project delays
 d. To identify deviations from the project scope
Question 25
Incorrect
Mark 0.00 out of 1.00
Which method is used to retrieve a value from SharedPreferences?
a. getAll() ×
○ b. getBoolean(0,"key")
Oc. getInt("key")
Od. getString("key",null)
Question 26
Incorrect
Mark 0.00 out of 1.00
Mark 0.00 out of 1.00
Mark 0.00 out of 1.00
Mark 0.00 out of 1.00 Which one of the following is the technique used in black box testing?
Which one of the following is the technique used in black box testing?
Which one of the following is the technique used in black box testing? a. Equivalence partitioning
Which one of the following is the technique used in black box testing? a. Equivalence partitioning b. Control flow based testing ×
Which one of the following is the technique used in black box testing? a. Equivalence partitioning
Which one of the following is the technique used in black box testing? a. Equivalence partitioning b. Control flow based testing ×

Question 27	
Incorrect	
Mark 0.00 out of 1.00	
In android OS stack HAL acts a runtime enviroment replacing the earlier DVM.	
○ a. All	
O b. false	
O d. None	
Question 28	
Correct	
Mark 1.00 out of 1.00	
Which loop statement is used when the number of iterations is known in advance?	
a. Ifelse statement	
b. While loop statement	
○ c. Switch statement	
□ d. For loop statement ✓	
Question 29	
Correct	
Mark 1.00 out of 1.00	
Which one of the following is Candidate Key?	
○ a. Name	
○ b. ID and Address	
© c. Email Address ✓	
O d. Name and ID	
Question 30	
Correct	
Mark 1.00 out of 1.00	
Which of the following is an example of a knowledge-based authentication factor?	
Which of the following is an example of a knowledge-based authentication factor?	
a. Smart card	
■ b. Username and password ✓	
○ c. Facial detection	
○ d. One-time password (OTP)	
e. Fingerprint scan	

Incorrect
Mark 0.00 out of 1.00
An entity in A is associated with at least one entity in B, and an entity in B is associated with at most one entity in A. This is called
as?
■ a. One-to-many ×
○ b. One-to-one
○ c. Many-to-one
○ d. Many-to-many
Question 32
Incorrect
Mark 0.00 out of 1.00
Which search algorithm is better suited for searching in a dynamic, frequently updated dataset?
a. Linear search
b. Both linear and binary search are equally suitable
○ c. Binary search ×
d. Neither linear nor binary search is suitable
Question 33
Correct
Mark 1.00 out of 1.00
Which operator is used to compare two values for equality in C++?
○ a. /=
○ c. =
○ c. =
○ c. =
○ c. = ○ d. +=
○ c. =○ d. += Question 34
○ c. = ○ d. += Question 34 Correct
○ c. = ○ d. += Question 34 Correct Mark 1.00 out of 1.00
○ c. = ○ d. += Question 34 Correct
 C. = d. += Question 34 Correct Mark 1.00 out of 1.00 Which design activity involves defining the relationships and interactions between software components?
 C. = d. += Question 34 Correct Mark 1.00 out of 1.00 Which design activity involves defining the relationships and interactions between software components? a. Architectural design ✓
 C. = d. += Question 34 Correct Mark 1.00 out of 1.00 Which design activity involves defining the relationships and interactions between software components? a. Architectural design ✓ b. High-level design
 C. = d. += Question 34 Correct Mark 1.00 out of 1.00 Which design activity involves defining the relationships and interactions between software components? a. Architectural design ✓

Question 35
Incorrect
Mark 0.00 out of 1.00
Miliah agating algorithms is as a ideas of the second officient for small data anti-2
Which sorting algorithm is considered the most efficient for small data sets?
○ a. Merge sort
b. Insertion sort X
○ c. Radix sort
O d. Heapsort
Question 36
Correct
Mark 1.00 out of 1.00
Which one of the following requirements could represent a non-functional requirement?
 a. The system shall allow users to search for books by title, author, or keyword.
$^{\circ}$ b. The system shall be compatible with all major web browsers and operating systems. \checkmark
c. The system shall allow users to browse products by category
 d. The system shall allow users to create a profile and upload a photo.
Question 37
Correct
Mark 1.00 out of 1.00
What is the primary goal of requirements elicitation?
a. To write the software code
● b. To gather information about the desired system ✓
oc. To define the software architecture
 d. To test the software functionality
Question 38
Incorrect
Mark 0.00 out of 1.00
Which activity involves breaking down high-level requirements into detailed, specific requirements?
a. Validating requirements
h Documenting requirements
b. Documenting requirements
 c. Eliciting requirements X

Correct
Mark 1.00 out of 1.00
What is the time complexity for inserting a new element at the end of a singly linked list?
What is the time complexity for inserting a new element at the end of a singly linked list:
○ a. O(n^2)
○ b. O /
O d. O(log n)
Question 40
Incorrect
Mark 0.00 out of 1.00
Social media platforms leverage big data to:
O a Developative user experience and torrected advertising
a. Personalize user experience and targeted advertising
b. Censor user comments
 c. Enhance data security measures X
d. Restrict user access to certain content
Question 41
Correct
Mark 1.00 out of 1.00
The technique used in user-centered interaction design to evaluate a product by testing it on users is called?
The technique used in user territorial interaction design to evaluate a product by testing it on users is called:
a. Usability testing
O b. Unit testing
C. Software tecting
c. Software testing
c. Soπware testingd. Black box testing
d. Black box testing
Od. Black box testing Question 42
Od. Black box testing Question 42 Incorrect
Od. Black box testing Question 42
Question 42 Incorrect Mark 0.00 out of 1.00
Od. Black box testing Question 42 Incorrect
Question 42 Incorrect Mark 0.00 out of 1.00 Runtime polymorphism feature in java is
Question 42 Incorrect Mark 0.00 out of 1.00 Runtime polymorphism feature in java is a. Method overloading
Od. Black box testing Question 42 Incorrect Mark 0.00 out of 1.00 Runtime polymorphism feature in java is O a. Method overloading O b. Constructor overloading ×
Od. Black box testing Question 42 Incorrect Mark 0.00 out of 1.00 Runtime polymorphism feature in java is a. Method overloading b. Constructor overloading × C. Operator overloading
Od. Black box testing Question 42 Incorrect Mark 0.00 out of 1.00 Runtime polymorphism feature in java is O a. Method overloading O b. Constructor overloading ×

Question 43 Incorrect
Incorrect
Mark 0.00 out of 1.00
Which network security issue shows the level of weakness in networks and devices?
○ a. Vulnerability
O b. Threat
○ d. Risk
○ e. Availability
Question 44
Correct
Mark 1.00 out of 1.00
 a. Detecting and preventing vulnerabilities in software b. Protecting software from physical damage or theft ✓ c. Protecting develop and implement robust software d. Ensuring the confidentiality and integrity of software e. Verifying that software meets security requirements
Question 45
Incorrect M. J. 200 a. a. (1.20)
Mark 0.00 out of 1.00
A functional dependency is a relationship between/among
○ a. Rows
○ b. Attributes
○ c. Entities ×
○ d. Tables

Question 46	
Incorrect	
Mark 0.00 out	of 1.00
What is th	he responsibility of the operating system in allocating resources to various applications?
vviiat is ti	the responsibility of the operating system in allocating resources to various applications:
○ a. <i>A</i>	A virtual machine
b. A	A multiplexer ×
○ c. <i>A</i>	An extended machine
O d. A	A resource manager
Question 47	
Incorrect	
Mark 0.00 out	of 1.00
What is th	he main benefit of using asymptotic analysis when comparing algorithms?
O a. I	t determines the memory usage of the algorithms
	t focuses on the long-term behavior of the algorithms ×
	t provides the exact running time of the algorithms
	t measures the communication bandwidth
O G. 1	timeasures the communication bandwidth
Question 48	
Incorrect	
Mark 0.00 out	of 1.00
la ana ann	
In procur	ement management, what is the purpose of performing a vendor evaluation?
○ a. T	To increase project risks
○ b. T	To limit vendor participation in the project
○ c. T	To ensure vendors are excluded from the project
d. T	To compare potential vendors and select the most suitable one $ imes$
Question 49	
Correct	
Mark 1.00 out	of 1.00
What is th	he purpose of role-based access control (RBAC)?
∩а Т	To prevent unauthorized access to a system
	To monitor and detect suspicious activities or attacks
	To assign permissions based on users' job functions or roles ✓
	To encrypt data at rest
e. I	To encrypt data on the transmission

Question 50
Incorrect
Mark 0.00 out of 1.00
Which of the following is a common way to represent the flow of control in an algorithm?
a. Using variables
○ b. Using data structures
 c. Using conditional statements and loops ×
 d. Using mathematical equations
Question 51
Correct
Mark 1.00 out of 1.00
Among the provided options, the SQLiteDatabase methods that returns a cursor is
b. execQuery()
c. update()
d. execSQL()
Question 52 Correct
Mark 1.00 out of 1.00
Which software development model involves a linear, sequential approach with distinct phases?
a. Spiral model
○ c. Agile model ○ d. RAD model
○ d. RAD model
Question 53
Correct Mark 100 out of 100
Mark 1.00 out of 1.00
What is the major characteristic of a computer virus?
 a. It replicates by attaching itself to other files
b. It steals sensitive data from a system
 c. It encrypts files and demands ransom for their release
d. It spreads through email attachments
e. It spreads through network connections
,

Question 54
Incorrect
Mark 0.00 out of 1.00
In a software project, what is the primary purpose of a communication plan?
a. To exclude project sponsors from communication channels
b. To limit communication among team members
oc. To delay the exchange of project information
 d. To facilitate effective communication among stakeholders X
Question 55
Incorrect
Mark 0.00 out of 1.00
If the method is not static; how to invoke in the java programming language?
a. Variablename.methodname
Objectname.methodname()
○ c. Classname.methodname() ×
○ d. Methodname()
Question 56
Incorrect
Mark 0.00 out of 1.00
Which type of agent is most suitable for dynamic and unknown environments where the state of the world changes frequently?
a. Learning agent
○ b. Reflex agent
○ c. Rational agent ×
○ d. Goal-based agent
Question 57
Incorrect
Mark 0.00 out of 1.00
Intent filter is used to define
a. data type used by the app component
○ b. All
 c. relationship between the app component and intent ×
○ d. category of app

Question 58
Correct
Mark 1.00 out of 1.00
In 2NF, which form of dependency is removed?
a. Functional
b. Associative
○ c. Transitive
■ d. Partial ✓
Question 59
Incorrect
Mark 0.00 out of 1.00
Which method is used to stop a bound service?
O a System syit/0)
a. System.exit(0)
b. stopService()c. None
⊚ d. selfStop() ×
Question 60
Incorrect
Mark 0.00 out of 1.00
Which of the following best describes the purpose of normalization in database management systems (DBMS)?
a. To eliminate data redundancy and ensure data integrity.
b. To improve data inconsistency and integrity.
c. To increase data redundancy and duplication.
 d. To simplify database maintenance and updates. X
Question 61
Correct
Mark 1.00 out of 1.00
Which industry is NOT typically associated with Big Data applications?
○ a. Manufacturing
b. Healthcare
c. Agriculture
■ d. Small retail shops ✓

Question 62
Incorrect
Mark 0.00 out of 1.00
is one of the basic principles of object oriented programming that use one object in multiple forms.
 a. None of the above
b. Inheritance
c. Encapsulation
d. Interface ×
G. Interface A
Question 63 Incorrect
Mark 0.00 out of 1.00
Mark 0.00 out of 1.00
What is the primary goal of data mining?
what is the phinary goal of data mining:
 a. To visualize data through graphs and charts X
b. To extract useful patterns and insights from data
c. To ensure data security and privacy
Od. To store and manage large volumes of data
Question 64
Incorrect
Mark 0.00 out of 1.00
Which of the following algorithms uses a recursive implementation?
a. Linear/sequential search
■ b. Binary search ×
○ c. Heap sort
O d. Insertion sort
Question 65
Correct
Mark 1.00 out of 1.00
What is a PRIMARY factor that distinguishes Big Data from traditional data management approaches?
 a. Requirement for specialized data processing tools
b. Inability to handle complex data formats
c. Focus on analyzing historical trends
d. Limited data storage capacity

Question 66
Incorrect
Mark 0.00 out of 1.00
In a software project, the planned value (PV) is \$50,000, the earned value (EV) is \$40,000, and the actual cost (AC) is \$45,000. Calculate the schedule variance (SV).
○ a. \$2,000
○ c\$10,000
Od. \$4,000
Question 67
Incorrect
Mark 0.00 out of 1.00
Mark 0.00 Out of 1.00
Which term refers to the process of summarizing data to improve efficiency in data warehousing?
a. Data mashing
O b. Data mining
c. Data aggregation
d. Data scrubbing ×
Question 68
Incorrect
Mark 0.00 out of 1.00
Among the reasons that lead to deadlock in operating systems, which one is used to solve the inter-process communication problem?
O b. Circular wait
o. No preemption
Od. Mutual exclusion
Question 69
Question 65
Correct
Correct
Correct
Correct Mark 1.00 out of 1.00
Correct Mark 1.00 out of 1.00 Which communication channel is most suitable for conveying complex technical information to a distributed team?
Correct Mark 1.00 out of 1.00 Which communication channel is most suitable for conveying complex technical information to a distributed team? a. Email
Correct Mark 1.00 out of 1.00 Which communication channel is most suitable for conveying complex technical information to a distributed team? a. Email b. Video conference

Question 70	
Correct	
Mark 1.00 out o	of 1.00
Which one	of the following computers can be most secured compared to the rest?
○ a. A	computer connected to the Internet having strong intrusion detection system
O b. A	computer connected to the Internet and the latest anti-virus installed on it
c. A	computer that is not connected to the Internet ✓
O d. A	computer connected to the Internet with the latest firewall system
○ e. A	computer connected to the Internet having strong software firewall system
Question 71	
Incorrect	
Mark 0.00 out o	of 1.00
Which clas	s does the IP address 172.16.1.20 belong to?
O a. Cl	
b. Cl	
O c. Cl	
O d. CI	ass C
Question 72	
Incorrect	
Mark 0.00 out o	of 1.00
During Sof	tware Requirement Management, which two types of requirements typically receive the highest priority?
9	
	during Requirements and Volatile Requirements
O b. Us	ser Stories and Bug Fixes
	curity Requirements and Performance Requirements
⊚ d. Fu	inctional Requirements and Non-Functional Requirements ×
Question 73	
Correct	
Mark 1.00 out o	of 1.00
Which mad	thine learning models are trained to make decision based on the reward and feedback they receive from their action.
⊚ a. Re	einforcement learning ✓
	nsupervised learning
	pervised learning
	I of the above
u. Al	TOTALE ADOVE

Question 74
Correct
Mark 1.00 out of 1.00
What is the purpose of classless addressing in IP networks?
a. To allocate IP addresses based on geographical location.
 b. To classify IP addresses into different classes for easier routing.
oc. To improve the security of IP addresses by encrypting them.
 ○ d. To provide more flexible allocation of IP addresses by allowing variable-length subnet masks.
Question 75
Incorrect
Mark 0.00 out of 1.00
What is the purpose of a change control board (CCB) in project management?
a. To prevent any changes from being made to the project
 b. To approve or reject changes to the project scope, schedule, and cost X
c. To allocate project resources
d. To escalate all project issues to senior management
Question 76
Incorrect
Mark 0.00 out of 1.00
which one of the following search algorithm requires less memory?
a. Depth First Search
b. Optimal Search
c. Breadth-First Search
Question 77
Correct
Mark 1.00 out of 1.00
What does validation ensure in software development?
a. That the software is free from defects
 b. That the software conforms to its specifications
 ○ c. That the software meets the requirements and fulfills its intended purpose ✓
d. That the software is written according to coding standards

Question 78
Incorrect
Mark 0.00 out of 1.00
Which of the following is NOT an input to the process of scope management?
which of the following is NOT an input to the process of scope management:
a. Cost Baseline X
○ b. Project Charter
oc. Work Breakdown Structure (WBS)
O d. Project Management Plan
- 70
Question 79
Incorrect May 1 0 00 at a 1 1 1 0 0
Mark 0.00 out of 1.00
Which scheduling technique involves identifying dependencies between project activities?
a. Agile sprint planning
b. Gantt charts ×
c. Critical Path Method (CPM)
d. Earned Value Management (EVM)
G. Larred Value Management (LVM)
Question 80
Incorrect
Mark 0.00 out of 1.00
In software testing, what is the term for testing performed by the end-users before a software release?
○ a. Alpha Testing
 b. Regression Testing ×
c. Beta Testing
d. Smoke Testing
U. Smoke lesting
Question 81
Incorrect
Mark 0.00 out of 1.00
Which one of the following approaches define AI is "The art of creating machines that perform functions that require intelligence when
performed by people."
 a. Thinking rationally ×
O b. Thinking humanly

Question 82	
Correct	
Mark 1.00 out of	1.00
What is the	purpose of access control in security mechanisms?
a. To	detect and remove malware from a system
b. To	prevent unauthorized access to resources 🗸
	encrypt digital assets at rest
	encrypt data during transmission
○ e. To ı	monitor network traffic for security threats
Question 83	
Incorrect	
Mark 0.00 out of	1.00
How can a p	project manager promote teamwork and collaboration within a software project team?
a. Cel	ebrate individual achievements only
	ourage competition among team members
	mote a supportive and inclusive team environment ×
	ter a blame culture
- 04	
Question 84 Correct	
Mark 1.00 out of	100
man noo out of	
Which prog	ramming paradigm emphasizes breaking down a program into smaller, reusable components?
	actional programming
-	ect-oriented programming 🗸
	cedural programming
O d. Asp	pect-oriented programming
Question 85	
Incorrect	
Mark 0.00 out of	1.00
Which team	structure involves team members reporting to functional managers but working on projects led by project managers?
a. Ma	trix teams
	inctional teams ×
	rarchical teams
	le teams
5	

Question 86
Correct
Mark 1.00 out of 1.00
Which statement about the round-robin scheduling algorithm is false?
Which statement about the round robin scheduling algorithm is laise:
a. It's the fairest algorithm and most widely used algorithm
■ b. Characterized by its non-preemptive nature ✓
c. Has higher context switch overhead
d. Characterized by using a quantum number for scheduling
Question 87
Correct
Mark 1.00 out of 1.00
Which control statement is used for executing different blocks of code based on multiple conditions?
a. Ifelse statement
○ b. While loop statement
○ d. For loop statement
Question 88
Incorrect
Mark 0.00 out of 1.00
What type of traceability shows how a requirement is designed and implemented?
What type of traceability shows now a requirement is designed and implemented:
a. Forward traceability
 b. Horizontal traceability X
○ c. Vertical traceability
Od. Backward traceability
Question 89
Correct
Mark 1.00 out of 1.00
Which one of the following statements contains an error?
a. SELECT empid FROM emp;
○ b. SELECT * FROM emp WHERE empid = 1001;
c. SELECT empid WHERE empid = 1002 AND lastname = 'Abebe';

Correct Mark 1.00 out of 1.00
Mark 1.00 out of 1.00
What is the main focus of Goal-Based Requirement Engineering?
What is the main focus of Goal-Based Requirement Engineering:
 a. Eliciting and refining stakeholder goals
b. Writing efficient code
c. Defining technical specifications
d. Identifying user interface elements
u. Identifying user interface elements
Question 91
Correct
Mark 1.00 out of 1.00
Which of the following is not an OOPS concept?
⊚ a. Exception ✓
b. Encapsulation
c. Polymorphism
○ d. Abstraction
Question 92
Incorrect
Mark 0.00 out of 1.00
Which software engineering approach focuses on capturing and managing requirements from stakeholders?
 a. RAD (Rapid Application Development) ×
b. CASE (Computer-Aided Software Engineering)
c. JAD (Joint Application Development)
c. JAD (Joint Application Development) d. RUP (Rational Unified Process)
Od. RUP (Rational Unified Process)
O d. RUP (Rational Unified Process) Question 93
O d. RUP (Rational Unified Process) Question 93 Incorrect
Od. RUP (Rational Unified Process) Question 93 Incorrect Mark 0.00 out of 1.00
O d. RUP (Rational Unified Process) Question 93 Incorrect
Od. RUP (Rational Unified Process) Question 93 Incorrect Mark 0.00 out of 1.00 Design, development, and maintenance of applications for mobile devices is referred as
Ouestion 93 Incorrect Mark 0.00 out of 1.00 Design, development, and maintenance of applications for mobile devices is referred as a. developing mobile apps
Ouestion 93 Incorrect Mark 0.00 out of 1.00 Design, development, and maintenance of applications for mobile devices is referred as a. developing mobile apps b. mobile computing ×
 d. RUP (Rational Unified Process) Question 93 Incorrect Mark 0.00 out of 1.00 Design, development, and maintenance of applications for mobile devices is referred as a. developing mobile apps b. mobile computing × c. mobile software engineering
Ouestion 93 Incorrect Mark 0.00 out of 1.00 Design, development, and maintenance of applications for mobile devices is referred as a. developing mobile apps b. mobile computing ×

Question 94
Correct
Mark 1.00 out of 1.00
Consider the following sequential free memory block (partition) sizes available for allocation: Block A=100 KB, Block B=200 KB, Block C=150 KB, Block D=300 KB, and Block E=250 KB. By using the First Fit algorithm if we allocate the following processes: P1 requires 120
KB, P2 requires 250 KB, P3 requires 180 KB. Which process goes into which memory block?
■ a. P1: Block B, P2: Block D, P3: Block E ✓
○ b. P1: Block D, P2: Block E, P3: will not be allocated to any partition
c. P1: Block A, P2: Block D, P3: Block E
od. P1: Block B, P2: Block E, P3: Block A
Question 95
Correct
Mark 1.00 out of 1.00
 a. <service> b. <provider> c. <receiver> d. <activity>
Question 96
Incorrect
Mark 0.00 out of 1.00
In android the super class for all ViewGroup is
a. Activity X
○ b. View
○ c. All
Od. Object

Question 97
Incorrect
Mark 0.00 out of 1.00
Suppose stakeholder complains that a requirement is unclear and open to interpretation. What is the most appropriate action to take?
a. Ignore the complaint and proceed with development.
b. Refine the requirement to be more specific and unambiguous
c. Delegate the clarification to the development team
 d. Explain to the stakeholder why the requirement is written in this way.
Question 98
Incorrect
Mark 0.00 out of 1.00
 a. Resource leveling b. Resource histogram c. Responsibility assignment matrix (RAM) × d. Maslow's Hierarchy of Needs
Question 99 Incorrect
Mark 0.00 out of 1.00
Which procurement document is used to solicit proposals from potential vendors? a. Statement of Work (SOW) b. Request for Proposal (RFP) × c. Request for Information (RFI) d. Invitation to Bid (ITB)
d. Invitation to Bid (ITB)

	The Examination of the 2024 (Round 1). Altempt review
Question 100	
Incorrect	
Mark 0.00 out of 1.00	
What is the time complexity of the algorithm given be	low?
<pre>for(i=1;i<n;i=i 2)="" pre="" statement;<="" {=""></n;i=i></pre>	
}	
a. O(log n) ×	i de la companya de
○ b. O(n log n)	
○ c. O ?	
○ d. O(n^2)	
Question 101	
Incorrect	
Mark 0.00 out of 1.00	
What is the triple constraint in project management?	
a. Time, Scope, and Cost	
b. Scope, Quality, and Stakeholders	
c. Time, Scope, and Quality	
d. Quality, Cost, and Schedule X	
Question 102	
Incorrect	
Mark 0.00 out of 1.00	
According to the OSI reference model, to which layer of	do routers and core switches belong when delivering routing services?
Dhyrical Layer Y	
a. Physical Layer X	
b. Data Link Layer	
c. Network Layer	
○ d. Transport Layer	

Question 10	3
Correct	
Mark 1.00 ou	rt of 1.00
Amona	the following options, which one shows the correct lifecycle method for an Activity?
	onCreate - onStart - onPause - onStop
	onCreate - onStart - onResume - oStop
	onCreate - onStart - onPause - onResume - onStop ✓
○ d.	onCreate - onStart - onResume - onPause - onStop
Question 10	MA
Correct	
Mark 1.00 ou	ut of 1.00
White-b	ox testing focuses on what aspect of the software?
О а.	User requirements
O b.	System specifications
○ c.	User interface design
d.	Internal code structure
Question 10	95
Incorrect	
Mark 0.00 ou	ut of 1.00
In which	phase of the project management process are project risks identified and documented?
	Executing Closing
	Planning
	Monitoring and Controlling ×
⊕ u.	Internitioning and controlling A
Question 10	06
Incorrect	
Mark 0.00 ou	it of 1.00
	em using virtual memory, the physical memory is divided intoand the virtual address space is divided into equally-sized
partition	s called
О а.	Pages, Page frames
	Page frames, Pages
	Page, Segment ×
	Segment, Page

Question 107
Incorrect
Mark 0.00 out of 1.00
Imagine you're a data scientist working with a massive dataset for a new project. What is one of the biggest obstacles you might face when trying to analyze this data?
 a. Finding enough data sources to supplement the existing dataset. X
 b. The sheer processing power and time required to analyze the data effectively.
c. The limited number of software tools available for data analysis.
d. The high cost of storing all this data on traditional storage devices.
Question 108
Incorrect
Mark 0.00 out of 1.00
What does the term "scope creep" refer to in project management?
a. The intentional expansion of project scope to meet stakeholder expectations
b. The completion of project deliverables ahead of schedule
 c. The inability to define project scope clearly X
 d. The unauthorized changes or continuous growth in project scope
Question 109
Correct
Mark 1.00 out of 1.00
Which type of cable can be used to directly connect two computers to form a peer-to-peer network?
○ a. Coaxial cable
○ c. Straight-through cable
○ d. Console cable
Question 110
Incorrect
Mark 0.00 out of 1.00
What is the purpose of a stakeholder register in project management?
a. To identify and document all project stakeholders
b. To avoid communication with stakeholders
c. To ignore stakeholders' concerns
 d. To allocate resources to project stakeholders ×
a. To disolate resources to project stakenoraets

Question 111
Correct
Mark 1.00 out of 1.00
Which term refers to the degree to which software meets specified requirements and user expectations?
a. Software architecture
○ b. Software complexity
○ c. Software maintenance
■ d. Software quality ✓
Question 112
Correct
Mark 1.00 out of 1.00
Which of the following statement is correct, when an overridden method is called from within a subclass?
\odot a. It will always refer to the version of that method defined by the superclass \checkmark
b. Compile time error will occur
c. It will always refer to the version of that method defined by the subclass
d. The Compiler will choose randomly the method to be executed
a. The compiler will choose fundaming the method to be executed
Question 113
Incorrect
Mark 0.00 out of 1.00
Which tree traversal visits the nodes in the following order: left subtree, root, right subtree?
a. Postorder traversal
 b. Level-order traversal X
○ c. Preorder traversal
Od. Inorder traversal
Question 114 Incorrect
Mark 0.00 out of 1.00
Mark 0.00 Out Of 1.00
Which protocol is commonly used for routing packets across different networks on the Internet?
Which protocol is commonly used for routing packets across different networks on the Internet? a. Internet Protocol (IP)
a. Internet Protocol (IP)
a. Internet Protocol (IP)b. Transmission Control Protocol (TCP)

Question 115	
Incorrect	
Mark 0.00 out of 1.00	
What is the purpose of a Work Breakdown Structure (WBS) in scope management?	
a. To schedule project activities	
○ b. To define project deliverables	
 ○ c. To assign resources to project tasks × 	
O d. To estimate project costs	
Question 116	
Correct A. L. 1.00 a. L. 1.100	
Mark 1.00 out of 1.00	
Which network topology is referred to as an active network topology?	
a. Star Topology	
○ b. Bus Topology	
○ d. Mesh Topology	
Question 117	
Incorrect	
Mark 0.00 out of 1.00	
Which two features of object-oriented programming are the same?	
a. Encapsulation and Polymorphism features are the same	
b. Abstraction and Polymorphism features are the same	
c. Encapsulation and Abstraction	
 d. Inheritance and Encapsulation features are the same X 	
Question 118	
Correct Mark 100 put of 100	
Mark 1.00 out of 1.00	
What is the purpose of an Intrusion Detection System (IDS) in computer cognity?	
What is the purpose of an Intrusion Detection System (IDS) in computer security?	
a. To encrypt data during transmission	
b. To encrypt data during transmission	
c. To prevent unauthorized access to a network	
d. To detect and alert on suspicious network activities 	
e. To recover data after a system failure or disaster	

Question 1	19
Correct	
Mark 1.00 c	out of 1.00
Which s	software development methodology emphasizes incremental, iterative development?
О а.	V-model
O b.	Spiral model
C.	Agile methodology ✓
O d.	Waterfall model
Question 1	20
Incorrect Mark 0.00 c	out of 1.00
IVIAIR 0.00 C	out of 1.00
c.d.	Any data in C and Only Protected and public data in A and B. Protected, default and public data only in C. Protected, default and public data only in C and B. X Any data in C and only public data in A and B.
Question 1	21
Correct	
Mark 1.00 c	but of 1.00
What is	the primary advantage of biometric authentication?
○ a.	It is very easy to hack the key.
O b.	It can be easily shared or transferred.
○ c.	It is easy to remember and use.
O d.	It can be easily reset or changed.
e.	It provides a high level of uniqueness and security. 🗸
a.b.c.d.	It is very easy to hack the key. It can be easily shared or transferred. It is easy to remember and use. It can be easily reset or changed.

Question 122
Correct
Mark 1.00 out of 1.00
What is the grown as of greature hadrons in administration and a sixtema 2
What is the purpose of system backups in administering systems?
a. To encrypt data during transmission
 b. To monitor and detect suspicious activities or attacks
c. To develop software applications
 ■ d. To recover data in the event of data loss or system failure ✓
e. To prevent unauthorized access to a system
e. To prevent undumorized access to a system.
Question 123
Incorrect Made 200 and 4000
Mark 0.00 out of 1.00
Consider the program:
<pre>public class Student { int idt int section;</pre>
<pre>int id; int section; void display(){</pre>
System.out.println("ID : " + id);
<pre>System.out.println("Section : " + section);}</pre>
<pre>public static void main(String[] args){</pre>
/*Create an object*/ }
}
Which of the following is a correct way to create an object in the main method of the above program?
a. Student stud;
 b. Student stud = new Student (3983,2); ×
c. Student stud = Student (3983,20);
d. Student stud=new Student ();
a. Statemental new statem (),
a 124
Question 124
Incorrect
Incorrect Mark 0.00 out of 1.00
Incorrect
Incorrect Mark 0.00 out of 1.00
Incorrect Mark 0.00 out of 1.00 What is the purpose of multifactor authentication in security mechanisms?
Incorrect Mark 0.00 out of 1.00 What is the purpose of multifactor authentication in security mechanisms? a. To authenticate users using multiple credentials
Incorrect Mark 0.00 out of 1.00 What is the purpose of multifactor authentication in security mechanisms? a. To authenticate users using multiple credentials b. To monitor network traffic for security threats c. To prevent unauthorized access to a system ×
Incorrect Mark 0.00 out of 1.00 What is the purpose of multifactor authentication in security mechanisms? a. To authenticate users using multiple credentials b. To monitor network traffic for security threats c. To prevent unauthorized access to a system ×

Question 125
Correct
Mark 1.00 out of 1.00
You are validating a software requirement that states "The system shall respond to user input within 2 seconds." What additional
information is most helpful for validation purposes?
a. The programming language used for development.
■ b. The specific user actions that trigger the response. ✓
c. The development team's experience level.
d. The hardware specifications of the target platform.
Question 126
Incorrect
Mark 0.00 out of 1.00
Which routing protocol is used for routing within an autonomous system (AS)?
 a. Exterior Routing Protocol X
b. Transmission Control Protocol (TCP)
c. Interior Routing Protocold. Internet Protocol (IP)
G. Internet Protocol (IP)
Question 127
Correct
Mark 1.00 out of 1.00
A key advantage of NoSQL databases for big data is:
a. Limited access control features
b. Enhanced data encryption capabilities
c. Enforcing strict data schema
 ■ d. Scalability to handle growing data volumes ✓
a. Scalability to hariate growing data volumes .
420
Question 128
Incorrect (400)
Mark 0.00 out of 1.00
Which metric measures the number of paths through a piece of code?
a. Lines of code
○ b. Defect density
© c. Code coverage ×
d. Cyclomatic complexity

Question 129
Incorrect
Mark 0.00 out of 1.00
In which search problem, to find the shortest path, each city must be visited once only? a. Travelling Salesman problem b. Finding the shortest path between a source and a destination c. Depth-first search traversal on a given map represented as a graph × d. Map coloring Problem
Question 130 Incorrect Mark 0.00 out of 1.00
In relational model terminology, is a set of allowable values for one or more attributes.
○ a. domain
O b. relation
○ c. range ×
○ d. tuple
Question 131
Incorrect
Mark 0.00 out of 1.00
describes the structure of the whole database for a community of users.
a. Conceptual level
O b. Physical level
○ c. View level
d. Internal level X
122
Question 132 Incorrect
Mark 0.00 out of 1.00
What is a key advantage of NoSQL databases in Big Data management?
 a. Structured data storage X
b. ACID compliance
○ c. Flexible schema
O d. Limited scalability

Question 133
Correct
Mark 1.00 out of 1.00
In Naive Bayes classification, how is the probability of a class calculated?
a. By using a decision tree algorithm
 b. By considering the joint prior frequencey of all features given in the dataset
c. By random selection of classes
 d. By averaging the feature values in each class
Question 134
Correct Mark 1.00 out of 1.00
Mark 1.00 Out of 1.00
What is the purpose of the "ifelse ifelse" statement in C++?
 ■ a. To execute different blocks of code based on multiple conditions
○ b. To declare variables in C++
○ c. To define a function in C++
d. To repeat a block of code until a condition is met
Question 135
Incorrect
Mark 0.00 out of 1.00
What technique involves predicting project effort based on historical data from similar projects?
a. Algorithmic models
 b. Analogy-based estimation
c. Parametric estimation
Question 136
Incorrect
Mark 0.00 out of 1.00
In problem solving using search the representation of internal state is
 a. Information Retrieval X
○ b. Factored
c. Mining of data
○ d. Atomic

Question 137
Correct
Mark 1.00 out of 1.00
What is the purpose of organization and team structures in software project management?
a. To allocate resources
○ b. To define project requirements
c. To create project schedules
$ullet$ d. To define roles and responsibilities within the project $oldsymbol{\checkmark}$
Question 138
Correct
Mark 1.00 out of 1.00
Which one of the following is Object-based data model DBMS?
a. Frame Memory
○ b. Unifying Model
© c. The E-R Model ✓
od. Relational Data Model
Question 139
Incorrect
Mark 0.00 out of 1.00
Which of the following is true according to EER concept?
a. Subclass member is the same as the entity in the super class, but in a distinct specific role.
b. Super class inherits all the attributes of the entity as the member of the subclass.
 c. The set of subclasses that forms a generalization is defined on the basis of some distinguishing characteristics.
 d. Subclass cannot participate in specific relationship types.
Question 140
Correct
Mark 1.00 out of 1.00
A relation that has no transitive dependencies is in which normal form?
a. Second
a. Secondb. Third ✓

Question 141
Incorrect
Mark 0.00 out of 1.00
Which one of the following is correct about Hierarchical Model?
Which one of the following is correct about the archical Model:
\odot a. The relationship between child to parent is one-to-many $ imes$
b. The relationship between child to parent is Many-to-many
c. The relationship between parent to child is Many-to-many
d. The relationship between parent to child is one-to-many
Question 142
Correct
Mark 1.00 out of 1.00
What is the main goal of a man-in-the-middle (MITM) attack?
a. Exploiting network vulnerabilities
b. To gain unauthorized access to a networkc. To steal sensitive data from a network
d. To disrupt network availability
\odot e. To intercept and manipulate communication between two parties \checkmark
Question 143
Correct
Mark 1.00 out of 1.00
Which concept allows you to store the memory address of a variable in C++?
a. Strings
O b. Arrays
o c. Structures
Question 144
Incorrect
Mark 0.00 out of 1.00
What is the primary purpose of the Delphi technique in project estimation?
a. To use historical data from similar projects to make estimates
 b. To achieve consensus among a group of experts regarding project estimates
\odot c. To rely on the expertise of individuals or groups familiar with the project domain $ imes$
 d. To compare the project to predefined standards

Question 145
Correct
Mark 1.00 out of 1.00
Consider the following reference string: 1, 2, 3, 4, 1, 2, 5, 1, 2, 3, 4, 5. Apply the FIFO page replacement algorithm with a frame size of 3. How many page faults occur?
O a. 12
O c. 10
O d. 11
140
Question 146 Correct
Mark 1.00 out of 1.00
Mark 1.00 Out of 1.00
Which sorting technique is known to have a time complexity of O(n log n)?
a. Selection sort
○ c. Quicksort
d. Insertion sort
147
Question 147 Incorrect
Mark 0.00 out of 1.00
Mark 0.00 Out of 1.00
What does architectural design primarily focus on?
a. Defining detailed specifications for individual components
b. Defining the high-level structure and organization of the system
c. Decomposing the system into functional modules
 d. Refining the high-level design into detailed specifications ×
Question 148
Question 146 Incorrect
Mark 0.00 out of 1.00
Which of the following is NOT a responsibility of a project manager in human resource management?
a. Staffing the project
b. Providing performance feedback
© c. Ignoring team conflicts ×
d. Motivating team members
O. MOLIVALING LEARN MEMBERS

Question 149
Incorrect
Mark 0.00 out of 1.00
The time complexity of the push operation in a stack is:
○ a. O ? >
O b. O(1)
⊚ c. O(log n) ×
Od. O(n^2)
Question 150
Incorrect
Mark 0.00 out of 1.00
Which one of the following is not true about gradle?
 a. packs the compiled code and resources into an APK file ×
O b. None
○ c. compiles the app's code
○ d. downloads and resolves the app's dependencies