- Question No. 1

  Unique Logical address is assigned to each host in which layer

  Options :

  1. Network Layer

  2. Session Layer

  3. Transport Layer

  4. Physical Layer

  5. Data Link Layer

  Answer : Network Layer

- Question No. 2

  A in ACID stands for what?

  Options :

  1. Atomicity

  2. Acentric

  3. Allow

  4. Atom

  5. Accumulator

  Answer : Atomicity

- Question No. 3

  Default value of boolean variable in an array

  Options :

  1. false

  2. True

3. Null

4. Either 1 or 3

5. All 1,2 and 3

Answer : false

- Question No. 4

Concatenate two strings by using which function?

Options :

1. strcpy()

2. strcat()

3. length()

4. strcmp()

5. none of these

Answer : strcat()

- Question No. 5

Default value of float variable in an array

Options :

1. 0

2. 0.0f

3. 0.0d

4. Either 1 or 3

5. All 1,2 and 3

Answer : 0.0f

- Question No. 6

Boolean occupies how much space in a 32 bit system

Options :

1. 8 bytes

2. 4 bytes

3. 2 bytes

4. 5 bytes

5. 1 bytes

Answer : 1 bytes

- Question No. 7

Physical limitation of a signal is called?

Options :

1. Attenuation

2. Dispersion

3. Noise

4. Delay Distortion

5. All of these

Answer : All of these

- Question No. 8

Function to copy one memory location to other in C++

Options :

1. memcpy()

2. memorycpy()

3. cpymem()

4. both 1 and 3

5. None of these

Answer : memcpy()

- Question No. 9

  Join in which result is generated when variable matches from any one of table

  Options :

  1. inner join

  2. left outer join

  3. right outer join

  4. outer join

  5. full join

  Answer : inner join

- Question No. 10

  Which of the following is not true about OLTP?

  Options :

  1. OLTP stands for Online Transactional Processing

  2. OLTP typically involves inserting, updating, and/or deleting small amounts of data in a database.

  3. OLTP mainly deals with large numbers of transactions by a large number of users.

  4. OLTP is often used to provide analytics on data that was captured via an OLAP application.

  5. OLTP systems often deal with mission-critical data, and have a large number of users.

  Answer : OLTP is often used to provide analytics on data that was captured via an OLAP application.

- Question No. 11

  Join in which result is generated only when variable matches from both tables.

  Options :

  1. inner join

  2. left outer join

  3. right outer join

4. outer join

5. full join

Answer : inner join

- Question No. 12

The weakening of signal in long-term transmission is called?

Options :

1. Attenuation

2. Dispersion

3. Noise

4. Delay Distortion

5. All of these

Answer : Attenuation

- Question No. 13

Generation of noise when one signal has higher strength than other while signal propagates in a medium

Options :

1. Attenuation

2. Dispersion

3. Noise

4. Distortion

5. All of these

Answer : Distortion

- Question No. 14

Accessing top element of stack without deleting it ?

Options :

1. Pop()

2. Push()

3. Peek()

4. isempty()

5. isfull()

Answer : Peek()

- Question No. 15

How many layers are there in a data warehouse?

Options :

1. 4

2. 5

3. 3

4. 8

5. 2

Answer : 4

- Question No. 16

Which of the following are the layers of a data warehouse?

Options :

1. Data Extraction Layer, Data Source Layer, Staging Area

2. Data Modelling Layer, Data Source Layer, Staging Area

3. Data Extraction Layer, Data Transimission Layer, Staging Area

4. Data Modelling Layer, Data Source Layer, Extraction Area

5. Data Extraction Layer, Data Access Layer, Staging Area

Answer : Data Extraction Layer, Data Source Layer, Staging Area

- Question No. 17

'/a' is used for what in C++

Options :

1. newline

2. alert(beep)

3. tab

4. vertical tab

5. single quote

Answer : alert(beep)

- Question No. 18

Which of the following function is used in every hashing technique

Options :

1. Hash Function

2. Delta function

3. hash Table

4. MDH code

5. Hashing delta function

Answer : Hash Function

- Question No. 19

If a series is already sorted, which sorting technique will finish in the least time?

Options :

1. Quick Sort

2. Insertion Sort

3. Binary sort

4. Bubble sort

5. Merge Sort

Answer : Insertion Sort

- Question No. 20

5,1,4,2,8 how many more pass are needed to finish sorting by bubble sorting technique?

Options :

1. 2

2. 5

3. 3

4. 4

5. 6

Answer : 3

- Question No. 21

Accessing the data value or message value which may even cause a function invocation, is called?

Options :

1. function calling

2. method overloading

3. message parsing

4. text parsing

5. none of these

Answer : function calling

- Question No. 22

In red-black tree, if the parent node is red, colour of child nodes will be?

Options :

1. Red

2. Black

3. light red

4. Brown

5. Any of the mentioned above

Answer : Black

- Question No. 23

What happens when a node is pushed into a stack?

Options :

1. It get at the top of the stack

2. It get into the mid of the stack

3. It get into the last of the stack

4. It is the last one to get poped out

5. None of these

Answer : It get at the top of the stack

- Question No. 24

Index of first element of linked list default value?

Options :

1. 2

2. 0

3. 1

4. 4

5. -1

Answer : 0

- Question No. 25

a snowflake schema is a logical arrangement of tables in a multidimensional database such that the entity relationship diagram resembles a snowflake shape.

Options :

1. true

2. False

3.

4.

5.

Answer : true

- Question No. 26

If a tree is of 4 level how many elements are present in it?

Options :

1. depends which kind of tree it is

2. 4

3. 16

4. 8

5. none of these

Answer : depends which kind of tree it is

- Question No. 27

keyword is used to skip this iteration and move to next iteration ?

Options :

1. Break

2. go to

3. continue

4. Either 1 and 2

5. None of these

Answer : continue

- Question No. 28

the star schema is the simplest style of data mart schema and is the approach most widely used to develop data warehouses and dimensional data marts.

Options :

1. true

2. False

3.

4.

5.

Answer : true

- Question No. 29

Attributes are made of more than one simple attribute.

Options :

1. Simple Attribute

2. Composite Attribute

3. Derived Attribute

4. Multi-valued Attribute

5. Single -valued Attribute

Answer : Composite Attribute

- Question No. 30

Ternary relationship has how many participating entities?

Options :

1. 1
2. 2
3. 3
4. 4
5. 5

Answer : 3

- Question No. 31

Defines the number of entities in one entity set, which can be associated with the number of entities of other set via relationship set.

Options :

1. Cardinality
2. Attributes
3. Relationship
4. Entity Set
5. None of these

Answer : Cardinality

- Question No. 32

Below mentioned figure depicts?

Options :

1. Specialization
2. Generalization
3. Inheritance
4. Abstraction

5. All of the above

Answer : Generalization

- Question No. 33

Referential integrity constraints work on the concept of primary Key.

Options :

1. true

2. false

3.

4.

5.

Answer : false

- Question No. 34

The fundamental operations of relational algebra are

Options :

1. Select

2. Project

3. Union

4. Set different

5. All of the above

Answer : All of the above

- Question No. 35

Relational Calculus is a non-procedural query language, that is, it tells what to do but never explains how to do it.

Options :

1. true

2. false

3.

4.

5.

Answer : true

- Question No. 36

In DRC, the filtering variable uses the domain of attributes instead of entire tuple values.

Options :

1. true

2. false

3.

4.

5.

Answer : true

- Question No. 37

In static hashing, when a search-key value is provided, the hash function always computes different address.

Options :

1. true

2. false

3.

4.

5.

Answer : false

- Question No. 38

The condition of bucket-overflow is known as

Options :

1. Collision

2. Probing

3. Underflow

4. Hashing

5. none of these

Answer : Collision

- Question No. 39

A chronological execution sequence of a transaction is called a

Options :

1. View

2. Step

3. Schedule

4. Query

5. None of these

Answer : Schedule

- Question No. 40

implementation of cryptographic techniques and their accompanying infrastructure to provide information security services.

Options :

1. Cryptosystem

2. Cipher system

3. Encryption

4. Both 1 and 2

5. Both 1 and 3

Answer : Both 1 and 2

- Question No. 41

The encryption process where same keys are used for encrypting and decrypting the information is known as Symmetric Key Encryption.

Options :

1. true

2. false

3.

4.

5.

Answer : true

- Question No. 42

The attacker has access to a set of ciphertext(s). He does not have access to corresponding plaintext. Which type of attack is it?

Options :

1. Ciphertext Only Attacks (COA)

2. Known Plaintext Attack (KPA)

3. Chosen Plaintext Attack (CPA)

4. Dictionary Attack

5. Brute Force Attack (BFA)

Answer : Ciphertext Only Attacks (COA)

- Question No. 43

Digital certificates are based on the ITU standard X.509 which defines a standard certificate format for public key certificates and certification validation. Hence digital certificates are sometimes also referred to as X.509 certificates.

Options :

1. true

2. false

3.

4.

5.

Answer : true

- Question No. 44

The two or more bits are changed from 0 to 1 or from 1 to 0 is known as
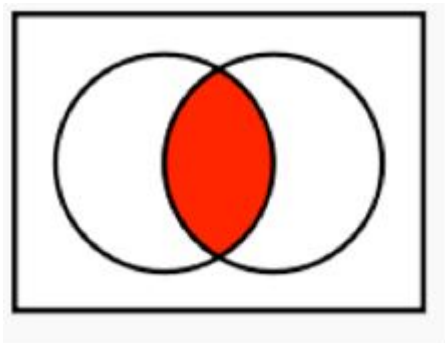
Options :

1. Single Error

2. Burst Error

3. Simple Error

4. Adaptive Error

5. None of these

Answer : Burst Error

- Question No. 45

What does this below venn diagram signify by red colored area?

Options :

1. Union

2. Intersection

3. Exclusive set

4. Exhaustive set

5. None of these

Answer : Intersection

- Question No. 46

An AVL tree may perform the following kinds of rotations

Options :

1. Left rotation

2. Right rotation

3. Left-Right rotation

4. Right-Left rotation

5. All of these

Answer : All of these

- Question No. 47

Quick sort algorithm is an example of

Options :

1. Greedy approach

2. Quick binary search

3. Divide and conquer

4. Dynamic programming

5. All of these

Answer : Divide and conquer

- Question No. 48

Tower of hanoi is classic example of?

Options :

1. Greedy approach

2. Quick binary search

3. Divide and conquer

4. recursive approach

5. Both 3 and 4

Answer : Both 3 and 4

- Question No. 49

All the calculations are performed in ALU of the computer system.

Options :

1. true

2. false

3.

4.

5.

Answer : true

- Question No. 50

  This formula will produce

  Fn = Fn-1 + Fn-2

  Options :

     1. Armstrong Number

     2. Fibonacci Series

     3. Euler number

     4. prime Number

     5. Even series

  Answer : Fibonacci Series

- Question No. 51

  A linked list is a dynamic structure?

  Options :

     1. true

     2. false

     3.

     4.

     5.

  Answer : true

- Question No. 52

  Which tree follow this rule?

  left_subtree (keys) ≤ node (key) ≤ right_subtree (keys)

  Options :

1. binary tree

2. Binary search tree

3. Complete binary tree

4. both 1 and 2

5. both 2 and 3

Answer : Binary search tree

- Question No. 53

Travelling Salesman problem is example of?

Options :

1. Greedy approach

2. Quick binary search

3. Divide and conquer

4. Dynamic programming

5. All of these

Answer : Greedy approach

- Question No. 54

Visiting root node after visiting left and right sub-trees is called

Options :

1. Inorder

2. Preorder

3. Postorder

4. infix

5. postfix

Answer : Postorder

- Question No. 55

Which method can find if two vertices x & y have path between them?

Options :

1. DFS

2. BFS

3. Both 1 and 2

4. TFS

5. None of the above

Answer : Both 1 and 2

- Question No. 56

A ⊓ (B ⊔ C) = (A ⊓ B) ⊔ (A ⊓ C) this is

Options :

1. Idempotent Laws

2. Associative Laws

3. Commutative Laws

4. Distributive Laws

5. De Morgan's Laws

Answer : Distributive Laws

- Question No. 57

(A ⊓ B) ⊓ C = A ⊓ (B ⊓ C) this is

Options :

1. Idempotent Laws

2. Associative Laws

3. Commutative Laws

4. Distributive Laws

5. De Morgan's Laws

Answer : Associative Laws

- Question No. 58

Multiplication Theorem states that

Options :

1. If A and B are two releted events, then the probability that both will occur is equal to the product of their individual probabilities.

2. If A and B are two independent events, then the probability that both will occur is equal to the sum of their individual probabilities.

3. If A and B are two independent events, then the probability that both will occur is equal to the product of their individual probabilities.

4. If A and B are two independent events, then the probability that both will occur is equal to the division of their individual probabilities.

5. none of these

Answer : If A and B are two independent events, then the probability that both will occur is equal to the product of their individual probabilities.
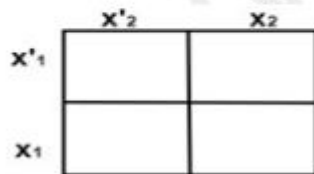
- Question No. 59

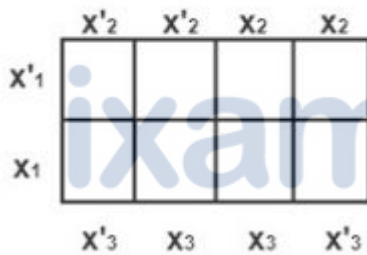When the number of variables n =2, the karnaugh map is like

1)

x   x'

2)

x'₂   x₂

x'₁

x₁

3)

x'₂   x'₂   x₂   x₂

x'₁

x₁

x'₃   x₃   x₃   x'₃

Options :

1. 1)

2. 2)

3. 3)

4. Any of the above

5. None of the above

Answer : 2)

- Question No. 60

The dual of any statement in a lattice (L, □, □) is defined to be a statement that is obtained by interchanging □an □.

Options :

1. true

2. false

3.

4.

5.

Answer : true

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