

• Question No. 1

Default network mask of class B

**Options :**

1. 255.255.0.0
2. 255.255.255.0
3. 255.0.0.0
4. 255.234.213.0
5. None

Answer : 255.255.0.0

• Question No. 2

Definition of brute force attack

**Options :**

1. attacker submitting many passwords or passphrases with the hope of eventually guessing correctly
2. hacking method that uses trial and error to crack passwords, login credentials, and encryption keys.
3. cybersecurity attack during which malicious actors send messages pretending to be a trusted person or entity.
4. Both 1 and 3
5. Both 1 and 2

Answer : Both 1 and 2

• Question No. 3

Port number for data and control of FTP protocol

**Options :**

1. 21 for control, 19 for data transfer

2. 21 for control, 22 for data transfer
3. 21 for control, 20 for data transfer
4. 23 for control, 20 for data transfer
5. None

Answer : 21 for control, 20 for data transfer

• Question No. 4

Size of MD5 message digest

**Options :**

1. 128 bit
2. 512 bits
3. 32 bits
4. 128 bytes
5. 512 bytes

Answer : 128 bit

• Question No. 5

Which all is/are Ransomware

**Options :**

1. WannaCry
2. Ryuk
3. Maze
4. Lockbit
5. All Of these

Answer : All Of these

• Question No. 6

How do we can Delete all in SQL

**Options :**

1. TRUNCATE TABLE tablename;
2. DELETE FROM tablename;
3. Truncate is faster than Delete
4. All are true
5. Only 1 and 2

Answer : All are true

• Question No. 7

Truncate command in SQL

**Options :**

1. TRUNCATE TABLE removes all rows from a table, but the table structure and its columns, constraints, indexes, and so on remain.
2. The working of truncate command is similar to the working of Delete command without a where clause.
3. TRUNCATE TABLE tablename;
4. Both 1 and 2 are correct
5. All are correct

Answer : All are correct

• Question No. 8

Data mart types

**Options :**

1. Dependent Data Mart
2. Independent Data Mart
3. Hybrid Data Mart
4. All are types of data mart

5. None

Answer : All are types of data mart

• Question No. 9

State True/False

With a data mart, teams can access data and gain insights faster, because they don't have to spend time searching within a more complex data warehouse or manually aggregating data from different sources.

**Options :**

1. True
2. False
- 3.
- 4.
- 5.

Answer : True

• Question No. 10

Identify correct statement w.r.t Java Syntax

**Options :**

1. Java is case sensitive
2. For all class names the first letter should be in Upper Case
3. Name of the program file should exactly match the class name.
4. Only a and b are correct
5. All are correct

Answer : All are correct

• Question No. 11

Operator overloading in C++

**Options :**

1. sizeof() operator can be overloaded
2. ternary operator can be overloaded
3. Binary operators can be overloaded
4. Both 2 and 3 are correct
5. Both 1 and 2 are correct

Answer : Binary operators can be overloaded

- Question No. 12

Bitwise operators in C++

**Options :**

1. &
2. |
3. ^
4. All three are Bitwise operator
5. None

Answer : All three are Bitwise operator

- Question No. 13

Command to change the priority in LINUX

**Options :**

1. use "renice" command
2. use "smit renice" command
3. use "nice" command
4. all three can be used
5. None

Answer : None

- Question No. 14

To count total no of argument in shell

**Options :**

1. \$#
2. \$#@
3. \$# #
4. \$\$#
5. None

Answer : \$#

- Question No. 15

Definition of 2NF

**Options :**

1. A 1NF table is in 2NF form if and only if all of its non-prime attributes are functionally dependent on the whole of every candidate key.
2. no transitive dependency or a relation is in 2 NF
3. all non-key attributes directly depend on candidate key
4. Only 1 and 3
5. None

Answer : A 1NF table is in 2NF form if and only if all of its non-prime attributes are functionally dependent on the whole of every candidate key.

- Question No. 16

Quick sort average time complexity

**Options :**

1.  $O(\log(N))$
2.  $O(N)$
3.  $O(N\log(N))$
4.  $O(N\log(N*N))$
5. None

Answer :  $O(N\log(N))$

• Question No. 17

Divide and conquer is used by

**Options :**

1. Merge Sort
2. Quick Sort
3. Longest common subsequence
4. Knapsack
5. Both 1 and 2

Answer : Both 1 and 2

• Question No. 18

Dynamic programming is used by

**Options :**

1. Merge Sort
2. Quick Sort
3. Longest common subsequence
4. Assembly line
5. Both 3 and 4

Answer : Both 3 and 4

• Question No. 19

Which all statements are correct about Sorting

**Options :**

1. Bubble sort has  $O(n^2)$  as best case time complexity
2. selection sort has  $O(n^2)$  as best case time complexity
3. Insertion sort has  $O(n^2)$  as best case time complexity
4. Radix sort has  $O(n+K)$  as best case time complexity
5. Only b and d are correct

Answer : Only b and d are correct

• Question No. 20

Which is/are correct w.r.t Passive attacks

**Options :**

1. a network attack in which a system is monitored and sometimes scanned for open ports and vulnerabilities
2. when an intruder records network traffic using a packet analyzer tool, such as Wireshark, for later analysis.
3. In a passive attack, an attacker observes the messages and copies them.
4. All three are true
5. Only 1 and 3

Answer : All three are true

• Question No. 21

Which is/are Keyword in C++

**Options :**

1. atomic\_cancel
2. co\_await



3. virtual
4. All three
5. Only b and c

Answer : All three

• Question No. 22

Purpose of Scope resolution operator

**Options :**

1. used to qualify hidden names so that you can still use them
2. To access a global variable when there is a local variable with same name:
3. To define a function outside a class.
4. All three
5. Only 1 and 2

Answer : All three

• Question No. 23

Identify the OSI layer responsible for end to end transmission

**Options :**

1. Network Layer
2. Transport Layer
3. Session Layer
4. Application Layer
5. None

Answer : Transport Layer

• Question No. 24

Data Frame are associated with which layer of OSI Model

**Options :**

1. Data Link layer
2. Physical Layer
3. Transport Layer
4. Session Layer
5. None

Answer : Data Link layer

• Question No. 25

1. Predict the output of the code

```
public class Animal {  
    public static void main(String args[])  
    {  
        public int localVar = 5;  
    }  
}
```

**Options :**

1. Error : Illegal Start of Expression
2. Compile successfully
3. Run Time Exception
4. Access specifier not mentioned
5. None`

Answer : Error : Illegal Start of Expression

• Question No. 26

Recursion uses

**Options :**

1. Array
2. Stack
3. Queue
4. Linked List
5. None

Answer : Stack

- Question No. 27

Abstract Class in Java

**Options :**

1. Contain Abstract Methods
2. Can only be 100% abstract
3. Objects cannot be created of such class
4. Both 1 and 3 are correct
5. Both 2 and 3 are correct

Answer : Both 1 and 3 are correct

- Question No. 28

SMTP commands

**Options :**

1. HELO
2. RCPT
3. MAIL
4. All are SMTP command
5. Both 1 and 2

Answer : All are SMTP command

- Question No. 29

Aggregate function in SQL

**Options :**

1. An aggregate function in SQL performs a calculation on multiple values and returns a single value.
2. avg, count, sum, min, max are aggregate function
3. An aggregate function ignores NULL values when it performs the calculation, except for the count function
4. All three are correct
5. None

Answer : All three are correct

- Question No. 30

Graph Traversal algorithms

**Options :**

1. DFS
2. BFS
3. Prim's Algorithm
4. Both 1 and 2
5. None

Answer : Both 1 and 2

- Question No. 31

Predict the program output

```
void main ()
```

```
{  
  
int x = 128;  
  
printf ("n%d", 1 + x++);  
  
}
```

**Options :**

1. 128
2. 129
3. 130
4. 127
5. 126

Answer : 129

- Question No. 32

Java. Lang package

**Options :**

1. The java. lang package is the default package in Java, by default, it will be imported.
2. It provides the fundamental classes that are necessary to design a basic Java program.
3. Both are correct
4. It is an interface
5. None

Answer : Both are correct

- Question No. 33

Appending value to list in python

**Options :**

1. Append() method add the value to the end of the list
2. It takes a single argument
3. It doesn't return any value
4. All three are correct
5. None

Answer : All three are correct

• Question No. 34

The important aspect of data warehouse environment is that data found within the data warehouse is

**Options :**

1. Integrated
2. Time variant
3. Subject oriented
4. Both 1 and 3
5. All three

Answer : All three

• Question No. 35

The time horizon of data warehouse is

**Options :**

1. 3-4 years
2. 5-7 years
3. 5- 10 year
4. No Time horizon
5. None

Answer : 5- 10 year

• Question No. 36

Which of the following is defined as an attempt to steal, spy, damage or destroy computer systems, networks, or their associated information?

**Options :**

1. Cyber attack
2. Computer security
3. Cryptography
4. Digital hacking
5. None

Answer : Cyber attack

• Question No. 37

The first line in any shell script begins with a \_\_\_\_\_

**Options :**

1. &
2. !
3. \$
4. #
5. @

Answer : #

• Question No. 38

What is the space complexity of program to reverse stack recursively?

**Options :**

1.  $O(1)$
2.  $O(\log n)$

3.  $O(n)$
4.  $O(n \log n)$
5. none

Answer :  $O(n)$

• Question No. 39

In Huffman coding, data in a tree always occur?

**Options :**

1. roots
2. leaves
3. left sub trees
4. right sub tree
5. None

Answer : leaves

• Question No. 40

You are given an array of elements where each array element represents the MAXIMUM number of jumps that can be made in the forward direction from that element. You have to find the minimum number of jumps that are required to reach the end of the array. Which of these methods can be used to solve the problem?

**Options :**

1. Dynamic Programming
2. Greedy Algorithm
3. Recursion
4. Recursion and Dynamic Programming
5. Any

Answer : Recursion and Dynamic Programming



- Question No. 41

For a given array, there can be multiple ways to reach the end of the array using minimum number of jumps.

**Options :**

1. True
2. false
- 3.
- 4.
- 5.

Answer : True

- Question No. 42

The values appearing in given attributes of any tuple in the referencing relation must likewise occur in specified attributes of at least one tuple in the referenced relation, according to \_\_\_\_\_ integrity constraint.

**Options :**

1. Referential
2. Primary
3. Referencing
4. Specific
5. ternary

Answer : Referential

- Question No. 43

Which one of the following given statements possibly contains the error?

**Options :**

1. select \* from emp where empid = 10003;

2. select empid from emp where empid = 10006;
3. select empid from emp;
4. select empid where empid = 1009 and Lastname = 'GELLER';
5. All are error free

Answer : select empid where empid = 1009 and Lastname = 'GELLER';

• Question No. 44

The term "FAT" is stands for\_\_\_\_\_

**Options :**

1. File Allocation Tree
2. File Allocation Table
3. File Allocation Graph
4. All of the above
5. None

Answer : File Allocation Table

• Question No. 45

Data Analytics uses \_\_\_\_ to get insights from data.

**Options :**

1. Statistical figures
2. Numerical aspects
3. Statistical methods
4. None of the mentioned above
5. Only 1 and 3

Answer : Statistical methods

• Question No. 46

Linear Regression is the supervised machine learning model in which the model finds the best fit \_\_\_\_ between the independent and dependent variable.

**Options :**

1. Linear line
2. Nonlinear line
3. Curved line
4. All of the mentioned above
5. Hyberbola

Answer : Linear line

- Question No. 47

Which module in Python supports regular expressions?

**Options :**

1. re
2. regex
3. pyregex
4. regular exp
5. none of the mentioned

Answer : re

- Question No. 48

Which of the following creates a pattern object?

**Options :**

1. re.create(str)
2. re.regex(str)
3. re.compile(str)
4. re.assemble(str)

5. All of the above

Answer : re.compile(str)

• Question No. 49

What does the function re.match do?

**Options :**

1. matches a pattern at the start of the string
2. matches a pattern at any position in the string
3. such a function does not exist
4. Matches the end of the string
5. none of the mentioned

Answer : matches a pattern at the start of the string

• Question No. 50

State true or false

Confidentiality, integrity and availability, also known as the CIA triad, is a model designed to guide policies for information security within an organization.

**Options :**

1. True
2. False
- 3.
- 4.
- 5.

Answer : True

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