- Question No. 1

  What is true about scope of the variable?

  Options :

  1. Inside a function or a block which is called local variables
  2. In the definition of function parameters which is called formal parameters.
  3. Outside of all functions which is called global variables
  4. All three are correct
  5. None of these

  Answer : All three are correct

- Question No. 2

  Characteristic of Tuple.

  Options :

  1. collection of objects which ordered and immutable.
  2. Tuples are sequences, just like lists
  3. They are enclosed within parenthesis and not within square braces
  4. All three are correct
  5. None of these

  Answer : All three are correct

- Question No. 3

  In Shell, Program starts with?

  Options :

  1. #! /bin/sh
  2. #

3. /#

4. #!/bin

5. None

Answer : #! /bin/sh

- Question No. 4

What is true about Constructor and Destructor?

Options :

1. A constructor in C++ is a special method that is automatically called when an object of a class is created.

2. A destructor is a member function that is invoked automatically when the object goes out of scope or is explicitly destroyed by a call to delete

3. A destructor has the same name as the class, preceded by a tilde (~).

4. A constructor has the same name as the class.

5. All are true

Answer : All are true

- Question No. 5

Command that allow rollback after deletion

Options :

1. ROLLBACK;

2. Savepoint;

3. Delete;

4. Rollback savepoint;

5. None

Answer : ROLLBACK;

- Question No. 6

Truncate(35965,-1)from dual

Options :

1. 35960
2. 35900
3. 35000
4. 35970
5. None

Answer : 35960

- Question No. 7

Operator which can be overloaded

Options :

1. ++
2. =
3. - -
4. both 1 and 3
5. All three can be overloaded

Answer : All three can be overloaded

- Question No. 8

What is true about Huffman's algorithm?

Options :

1. Huffman coding is a lossless data compression algorithm.
2. a variable-length code is assigned to input different characters.
3. The code length is related to how frequently characters are used
4. Only 1 and 3 are correct
5. All three are true about Huffman algorithms

Answer : All three are true about Huffman algorithms

- Question No. 9

Number of swaps needed to sort [8, 22, 7, 9, 31, 19, 5, 13] array using bubble sort.

Options :

1. 22
2. 14
3. 15
4. 16
5. 20

Answer : 14

- Question No. 10

State true or false.

Data warehouse is constructed by integrating data from various heterogenous sources that support analytical reporting.

Options :

1. true
2. false
3.
4.
5.

Answer : true

- Question No. 11

Money debited/credit impacting customer's account is which characteristic.

Options :

1. Durability of a transaction
2. Authenticity of system
3. Atomicity of transaction
4. Isolation in system
5. None of these

Answer : Durability of a transaction

- Question No. 12

Which layer gives end to end delivery in OSI Model.

Options :

1. Physical Layer
2. Session layer
3. Data link layer
4. Transport layer
5. Network layer

Answer : Transport layer

- Question No. 13

Thomas write rule is for which protocol.

Options :

1. Basic timestamping protocol
2. TCP/IP
3. Monitors
4. Strict locking
5. Rigrous locking

Answer : Basic timestamping protocol

- Question No. 14

  Which all is/are example of phising

  Options :

  1. Regular
  2. Spear
  3. Smishing
  4. Whaling
  5. All of these

  Answer : All of these

  Direction:

  incorrect header file in a C program, it will result in a compile-time error. This is because the compiler checks for the existence and correctness of all included header files before proceeding with the compilation of the program.

- Question No. 15

  Output of below code

  #include

  int main()

  {

  int k;

  for(k=3;k

  printf("%d",k);

  return 0;

  }

  Options :

1. Compile time error
2. 27
3. infinite loop
4. run time error
5. 30

Answer : Compile time error

- Question No. 16

Output of below code

```
#include


int main()

{

   int i=1;

printf("%d %d %d",i,&++i,i++);

 return 0;

}
```

Options :

1. Compile time error
2. Run time error
3. 1 2 2
4. 1 2 3
5. None

Answer : Compile time error

- Question No. 17

  Python code

  Str='hello!'

  Str[0]='c'

  Print(Str)

  Options :

  1. Type error : str does not support the item assignment
  2. cello!
  3. crash
  4. hello!
  5. None

  Answer : Type error : str does not support the item assignment

- Question No. 18

  State true or false

  In Data Warehousing ,Granularity means the level of detail of your data within the data structure.

  Options :

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

  Answer : True

- Question No. 19

  Process id command in unix to get the last executed process.

  Options :

  1. echo "$!"
  2. #!/bin/sh
  3. echo $$
  4. export
  5. None

  Answer : echo "$!"

- Question No. 20

  Cluster indexing in DBMS

  Options :

  1. A clustered index defines the order in which data is physically stored in a table
  2. there can be only one clustered index per table
  3. In SQL Server, the primary key constraint automatically creates a clustered index on that particular column
  4. Only 1 and 2 are true
  5. All three are true

  Answer : All three are true

- Question No. 22

  B+ Tress in DBMS

  1) Each internal node is of the form : where c Pi is a tree pointer (i.e points to another node of the tree) and, each **Ki is**

  Options :

1. key value
2. Every internal node has : K1 > K2 > .... > Kc-1
3. All leaf nodes are at same level
4. Only 1 and 3 are true
5. None

Answer : Only 1 and 3 are true

- Question No. 23

What the code is doing

```
main()
{
int x,y,m,n;
scanf("%d %d", &x, &y); // assume x and y as greater than zero.
m=x;
n=y;
 while(m!=n)
 {
   if(m>n)
      m=m-n;
   else
       n=n-m;
  }
```

printf(“%d”,n);

}

Options :

1. The logic behind the code is to find the greatest common factor of two numbers.
2. Armstrong number
3. Factorial number
4. The logic behind the code is to find the lowest common factor of two numbers.
5. None

Answer : The logic behind the code is to find the greatest common factor of two numbers.

- Question No. 24

Predict the output of code

```
#include

int main()

{
   int a[10][20][30] = {0};

   int *b = a;

   int *c = a+1;

   printf("%ld", c-b);



   return 0;

}
```

Options :

1. 500
2. 600
3. 700
4. 454
5. None

Answer : 600

- Question No. 25

Which command Tell you which bash you have to use

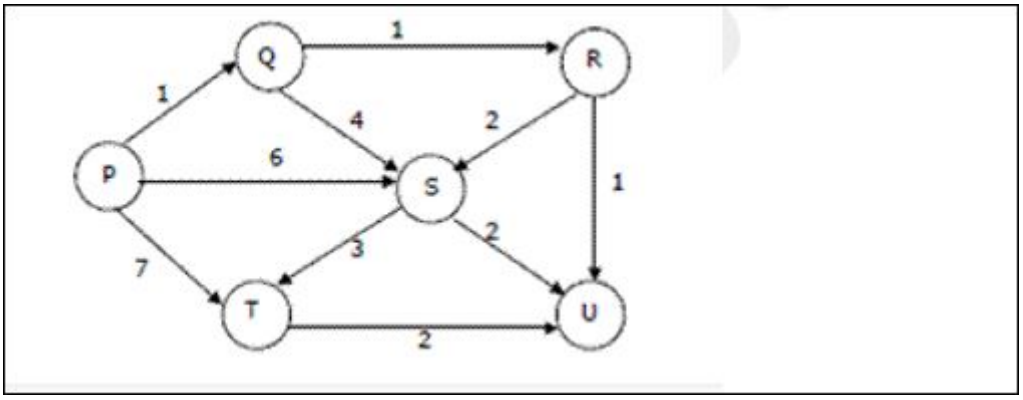
Options :

1. cat /etc/shells
2. which bash
3. #! /bin/sh
4. -gt
5. None

Answer : which bash

- Question No. 26

Use Dijkstra's single source shortest-path algorithm on the following edge weighted directed graph with vertex P as the source. In what order do the nodes get included into the set of vertices for which the shortest path distances are finalized?



Options :

1. P, Q, R, U, S, T
2. P, Q, R, U, T, S
3. P, Q, U, S, T,R
4. P, Q, R, S, T,U
5. None

Answer : P, Q, R, U, S, T

- Question No. 27

Black Box Testing sometime called –

Options :

1. Data flow testing
2. Loop testing
3. Behavioral testing
4. Graph based testing
5. None of these

Answer : Behavioral testing

- Question No. 28

Which is used to find similar character/string in SQL?

Options :

1. Alter
2. Trim
3. % like
4. Underscore
5. both 3 and 4

Answer : both 3 and 4

- Question No. 28

Which is used to find similar character/string in SQL?

Options :

1. Alter
2. Trim
3. % like
4. Underscore
5. both 3 and 4

Answer : both 3 and 4

- Question No. 29

Which of the following is a form of DoS attack?

Options :

1. Vulnerability attack
2. Bandwidth flooding
3. Connection flooding
4. All 1, 2 and 3
5. Only 1 and 2

Answer : All 1, 2 and 3

- Question No. 30

  To open a file c:\result.txt for reading in python, we use _____

  Options :

  1. infile = open("c:\ result.txt", "w")
  2. infile = open("c:\\ result.txt", "r")
  3. infile = open(file = "c:\ result.txt", "w")
  4. infile = open(file = "c:\\sc result ores.txt", "rw")
  5. Any of the above

  Answer : infile = open("c:\\ result.txt", "r")

- Question No. 31

  What will be the output of the following Python code snippet?

  d1 = { "johnny" : 40 , "peterson" : 45 }

  d2 = { "johnny" : 466 , "peterson" : 45 }

  d1 = d2

  print (d1 == d2)

  Options :

  1. False
  2. True
  3. None
  4. Error
  5. All of these

  Answer : True

- Question No. 32

What will be the output of the following Python code snippet?

d = { "johnnys" : 40 , "peterson" : 45 } d["johnnys"]

Options :

1. 40
2. 45
3. “johnnys”
4. “peterson”
5. Johnnys : 40

Answer : 40

- Question No. 33

$ head -15 file1

This above command of shell scripting is responsible for?

Options :

1. It displays first 15 lines of the file
2. It displays last 15 lines of the file
3. It delete first 15 lines of the file
4. It sort first 15 lines of the file
5. None of these

Answer : It displays first 15 lines of the file

- Question No. 34

In IT audit the base is the system

Options :

1. True

2. False
3.
4.
5.

Answer : True

- Question No. 35

A higher risk of system violation happens when

Options :

1. Audits are ignored
2. Audits are not operational
3. Audits are not reviewed periodically
4. Audits are disabled
5. All of the above

Answer : All of the above

- Question No. 36

A file permission is given as 'drwxr-xr-x' the first character 'd' indicates?

Options :

1. It belongs to superuser.
2. It is a directory
3. It is a file
4. All of the above
5. None

Answer : It is a directory

- Question No. 37

There are two folders named A-folder and B-folder,will following command work on these?

cp A-folder/ B-folder/

Options :

1. Yes
2. No
3.
4.
5.

Answer : No

- Question No. 38

The operation of moving from coarser granularity data to finer granularity is called

Options :

1. Drill Down
2. Dice
3. Slicing
4. Mining
5. RollUp

Answer : Drill Down

- Question No. 39

What does below UNIX command do?

rm file1 file2

Options :

1. delete file2
2. delete file1

3. delete file1 and file2
4. delete file2 which is inside file1
5. None of these

Answer : delete file1 and file2

- Question No. 40

_____ primarily provides insight into how effective network control and practices are, i.e. its compliance to internal and external network policies and regulations.

Options :

1. Network auditing
2. System Auditing
3. Internal Auditing
4. external Auditing
5. None of these

Answer : Network auditing

- Question No. 41

Which of the following is TRUE?

Options :

1. Every relation in 2NF is also in BCNF
2. A relation R is in 3NF if every non-prime attribute of R is fully functionally dependent on every key of R
3. Every relation in BCNF is also in 3NF
4. No relation can be in both BCNF and 3NF
5. None of these

Answer : Every relation in BCNF is also in 3NF

- Question No. 42

Suppose computers A and B have IP addresses 10.105.1.113 and 10.105.1.91 respectively and they both use the same netmask N. Which of the values of N given below should not be used if A and B should belong to the same network?

Options :

1. 255.255.255.0
2. 255.255.255.128
3. 255.255.255.192
4. 255.255.255.224
5. None

Answer : 255.255.255.224

- Question No. 43

State true/false

IEEE 802.4 standard for virtual ring in LAN.

Options :

1. true
2. false
3.
4.
5.

Answer : true

- Question No. 44

which subnet will suit best if you have to create 5 networks and 16 hosts/subnet?

Options :

1. 255.255.255.192

2. 255.255.255.240
3. 255.255.255.224
4. 255.255.255.248
5. Any of the above

Answer : 255.255.255.224

- Question No. 45

Which of the following shows the count of arguments passed to the script?

Options :

1. %#
2. $#
3. $$
4. %$
5. @#

Answer : $#

- Question No. 46

Which of the following regular expression will you use to pick strings ninga & ginga from below mentioned test string?

Test String : ninga ginga ninga kinga pinga

Options :

1. [n]inga
2. [g]inga
3. [ng]inga
4. n[inga]
5. None

Answer : [ng]inga

- Question No. 47

  Which of the following strings will not match with regular expression \w{2}\d{3}\s\w{2}

  Options :

  1. as123 ds
  2. AS123 DS
  3. As123ds
  4. As123 dS
  5. None

  Answer : As123ds

- Question No. 48

  A complete Binary tree with the property that the value at each node maximum of its children called

  Options :

  1. Heap
  2. Binary Search tree
  3. AVL tree
  4. Complete balanced tree
  5. Threaded Tree

  Answer : Heap

- Question No. 49

  What is the space complexity of selection sort in the worst case

  Options :

  1. O(1)
  2. O(n log(n))
  3. O(n2)

4. O(∞)

5. O(n n!)

Answer : O(1)

- Question No. 50

If Quick sort tales 100 seconds to sort 1000 names then what will be the The minimum time (Best case) needed to sort 100 names

Options :

1. 50.2 sec

2. 6.7 sec

3. 72.7 sec

4. 11.2 sec

5. 15.3 sec

Answer : 6.7 sec