12th Computer Science

FAQ

(Frequently Asked Questions)

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Multiple Choice Questions

1. The function which will give exact result when same arguments are passed are called (Mar-2020)
   (a) Pure functions   (b) Impure functions
   (c) Partial functions   (d) Dynamic functions

2. A sequence of immutable objects is called (Mar-2020,Jun-2023)
   (a) Derived data   (b) Built in   (c) List   **(d) Tuple**

3. Which of the following members of a class can be handled only from within the class? (Mar-2020)

   (a) Public members   **(b) Private members**
   (b) (c) Protected members   (d) Secured members

4. Two main measures for the efficiency of an algorithm are (Mar-2020)
   (a) Data and space   (b) Processor and memory
   (b) Complexity and capacity   **(d) Time and space**

5. Expand IDLE :   (Mar-2020)
   (a) Integrated Design Learning Environment   (b) Insert Development Learning Environment
   (b) Integrated Develop Learning Environment   **(d) Integrated Development Learning Environment**

6. What is the output of the following snippet? (Mar-2020)

   ```
   for i in range(2,10,2):
   print(i,end="")
   ```

   (a) 8 6 4 2   (b) 2 4 6 8 10   **(c) 2 4 6 8**   (d) 2 4 6

7. Evaluate the following function and write the output. 1.   (Mar-2020)

   ```
   x=14.4
   print(math.floor(x))
   ```

   (a) 13   **(b) 14**   (c) 15   (d) 14.3

8. What will be the output of the following code? (Mar-2020)

   ```
   str="NEW DELHI"
   str[3]="-"
   ```
   (a)NEW-DELHI   (b) NE-DELHI   (c) NEW DELHI   (d) NEW-ELHI
   Ans: Errror

9. The keys in Python dictionary is specified by 1. (Mar-2020)

   (a) ;   (b)-   **(c) :**   (d) +

10. What symbol is used for SELECT statement?   (Mar-2020)
    (a) Ω   **(b) σ**   (c) Π   (d) x
11. A CSV file is also known as a : 1.   (Mar-2020)
    (a) Random File   (b) String File   (c) 3D File   **(d) Flat File**
12. A framework for interfacing Python and C++ is : 1.   (Mar-2020)
    (a) Cytpes   **(b) Boost**   (c) SWIG   (d) Cython
13. Which of the following is an organized collection of data? 1. (Mar-2020)
    (a) Records   (b) Information   (c) DBMS   **(d) Database**
14. Which is the basic building block of computer programs?   (Sep-2020)
    (a) Argument   (b) Parameter   **(c) Subroutine**   (d) Interface
15. Which functions build the abstract data type? (Sep-2020)
    (a) Constructors   (b) Data   (c) List   (d) Tuple
16. The process of binding a variable name with an object is called : (Sep-2020)
    (a) Scope   **(b) Mapping**   (c) Namespaces   (d) Memory
17. Which one of the following is not a factor to measure the execution time of an algorithm? (Sep-2020)
    (a) Speed of the machine   (b) Operating system
    (b) Programming language used   **(d) Selection**
18. Which key is pressed to execute Python Script? (Sep-2020)
    (a) F5   (b) F2   (c) F1   (d) F3
19. Which statement is used to skip the remaining part of the loop and start with next iteration? (Sep-2020)
    (a) break   (b) pass   **(c) continue**   (d) null
20. Which of the following keyword is used to begin the function block? (Sep-2020)
    (a) define   **(b) def**   (c) finally   (d) for
21. In Python, which operator is used to display a string in multiple number of times? (Sep-2020)
    (a) * (multiplication) (b) + (addition)   (c) - (subtraction)   (d) / (division)
22. Marks = [20, 40, 60, 80, 100] (Sep-2020)
    print(Marks[-2])
        What will be the output?
    (a)60   (b) 100   (c) 40   **(d) 80**
23. In Python, which of the following class declaration is correct? (Sep-2020)
    (a) classclass_name :   (b) class class_name<>
    (c) class class_name   (d) class class_name[]
24. The Relational Database model was first proposed by : (Sep-2020)
    (a) C.D. Darween   (b) Chris Date   **(c) E.F. Codd**   (d) Hugh Darween
25. Which is a Data Control Language command in SQL? (Sep-2020)
    (a) Alter   **(b) Grant**   (c) Truncate   (d) Commit
26. CSV is expanded as : (Sep-2020)
    (a) Comma Separated Values   (b) Condition Separated Values
    (b) Comma Special Values   (d) Condition Special Values

27. Which of the following is not a scripting language? (Sep-2020)
    (a) Ruby   **(b) DBMS**   (c) Perl   (d) JavaScript
28. Which SQL function returns the number of rows in a table? (Sep-2020)
    (a) SUM() (b) MAX()   (c) CHECK()   **(d) COUNT()**
29. The small sections of code that are used to perform a particular task is called : (Sep-2021,Mar-2023)
    (a) Pseudo code   **(b) Subroutines**   (¢) Modules   (d) Files

30. Let List = [2, 4, 6, 8, 10], then print(List[-2]) will result in : (Sep-2021)
    (a) 4   (b) 10   (c) 6   **(d) 8**

31. SQLite falls under which database system? (Sep-2021,May-2022)
    (a) Hierarchical database system   (b) Flat file database system
    (b) Object oriented database system   **(d) Relational database system**
32. Which one of the following character is used to give a single line comments in Python program? (Sep-2021)
    (a) @   **(b) #**   (c) &   (d) &
33. What plays a vital role in Python programming? (Sep-2021)
    (a) Structure   (b) Statements   **(c) Indentation**   (d) Control
34. Which of the following keyword is used to exit a function block? (Sep-2021)
    (a) finally   (b) define   (c) def   (d) return
35. Strings in Python : (Sep-2021)
    (a) Immutable   (b) Changeable   (c) Flexible   (d) Mutable
36. Which of the following functions build the abstract data type? (Sep-2021,Jul-2022)
    (a) Recursive   **(b) Constructors**   (c) Nested   (d) Destructors
37. The process of creating an object is called as (Sep-2021,Jun-2023)
    (a) Initialization   (b) Constructor   **(c) Instantiation**   (d) Destructor
38. What is the acronym of DBMS? (Sep-2021)
    (a) DataBase Management System   (b) DataBase Management Symbol
    (b) DataBasic Management System   (d) DataBase Managing System
39. The clause used to sort data in a database : (Sep-2021,May 2022,Jun-2023)
    (a) GROUP BY   (b) SORT BY   (c) SELECT   **(d) ORDER BY**
40. The module which allows interface with the Windows Operating System is : (Sep-2021,Jun-2023)
    (a) csv module **(b) OS module**   (c) getopt module   (d) sys module
41. The process of binding a variable name with an object is called : (Sep-2021)
    (a) Late binding (b) Scope   (c) Early binding   **(d) Mapping**
42. Using Matplotlib from within a Python Script, which method inside the file will display your plot? (Sep-2021)
    (a) plot()   (b) disp()   (c) clear()   **(d) show()**

43. Which of the following is a distinct Syntactic block? (May-2022)

      (a) Definition   (b) Subroutines   (c) Modules (d) Function

44. Which of the following will retrieve information from the data type? (May-2022)

      (a) Recursive   (b) Constructors (c) Nested **(d) Selectors**

45. Which of the following names of variables to object is called : (May-2022)

      (a) Binding   (b) Scope   (c) Namespaces   (d) Mapping

46. The word comes from the name of a Persian mathematician Abu Jafar Mohammed ibn-i Musa al Khowarizmj is called : (Sep-2021,May-2022)

      (a) Algorithm   (b) Flow chart   (c) Syntax   (d) Flow

47. Which Operator is also called as Comparative Operator » (May-2022)

      (a) Logical Operator   (b) Arithmetic Operator

      (b) Assignment Operator   **(d) Relational Operator**

48. 'elif' can be considered to be short form of _____ (May-2022,Jun-2023)
     (a) else if   (b) nested if (c) if...elif   (d) if..else

49. What will be the output of the following code? (May-2022)

        str1 ="Chennai Schools"
        str1[7]="-"
     (a) Type Error   (b) Chennai-Schools   (c) Chennai   (d) Chenna-School

50. If List=[17, 23, 41, 10] then, List.append(32) will result : (May-2022)
     (a) [10, 17, 23, 32, 41]   (b) [32, 17, 23, 41, 10]
     (b) (c) [41, 32, 23, 17, 10]   (d) [17, 23, 41, 10, 32]

51. Which of the following method is used as destructor? (May-2022)
     (a) __rem__()   (b) __init__()   **(c) __del__()**   (d) __dest__ ()

52. A tuple is also known as : (May-2022)
     (a) Attribute   (b) Table   (c) Field   **(d) Row**

53. The expansion of CRLF is : (May-2022)
     (a) Control Router and Line Feed   (b) Control Return and Line Feed
     (b) Carriage Return and Line Feed (d) Carriage Return and Form Feed

54. A Framework for interfacing Python and C++ is : (May-2022)
     (a) Cython   (b) Ctypes   **(c) Boost**   (d) SWIG

55. Which of the following is a unit of code that is often defined within a greater structure?
     (Jul-2022)
     (a) Subroutines **(b) Function**   (c) Files   (d) Modules

56. Which scope refers to variables defined in current function? (Jul-2022)
     (a) Local Scope (b) Global Scope   (c) Module Scope (d) Function Scope

57. Which of the following shortcut is used to create new Python Program? (Jul-2022,Jun-2023)
     (a) Ctrl + C   (b) Ctrl + F   (c) Cul+B   **(d) Ctrl + N**

58. _____ is used to print more than one item on a single line. (Jul-2022)
     (a) Semicolon (;)   (b) Dollar ($)   **(c) Comma (,)**   (d) Colon (:)

59. Which is the most Comfortable loop? (Jul-2022)
     (a) do..while   (b) while   **(c) for**   (d) if..elif

60. Which of the following keyword is used to Define the function block (Jul-2022)

     (a) define   (b) for   (c) finally   **(d) def**

61. What is Stride? (Jul-2022)
     (a) index value of slide operation   (b) first argument of slice operation
     (b) second argument of slice operation   **(d) third argument of slice operation:**

62. What will be the result of the following Python code? (Jul-2022)

        S =[x ** 2 for x in range (5)]
        print (S)
     (a) [0, 1, 2, 4, 5] **(b) [0, 1, 4, 9, 16]**   (c) [0, 1, 4, 9, 16, 25]   (d) [1, 4, 9, 16, 25]

63. The command to delete a table is : (Mar-2020,Jul-2022)

(a) DROP (b) DELETE (c) DELETE ALL   (d) ALTER TABLE

64. Which of the following mode is used when dealing with non-text files like image or exe files?

(Jul-2022,Mar-2023)

(a) Text made   **(b) Binary mode**   (c) xls mode   (d) CSV mode

65. getopt () will return an empty array if there is no error in splitting strings to : (Jul-2022)

(a) argv variable   (b) opt variable   **(c) args variable**   (d) ifile variable

66. The function that returns the largest value of the selected column is : (Jul-2022, Mar-2023)

(a) MAX ()   (b) LARGE () (c) HIGH ()   (d) MAXIMUM ()

67. _____ members are accessible from outside the class. (Mar-2023)

(a) Secured members   **(b) Public members.**

(b) Private members   (d) Protected members.

68. Which of the following is not a keyword in Python? (Mar-2023)

(a) continue   (b) break   **(c) operator** (d) while

69. The number of important control structures in Python : (Mar-2023)

(a) 5   **(b) 3** (c) 6   (d) 4

70. Class members are accessed through operator. (Mar-2020,Jul-2022,Mar-2023)

(a) #   (b) &   (c) %   **(d) .**

71. The database Model which represents the Parent-Child relationship: (Mar-2023)

(a) Hierarchical   (b) Relational   (c) Object   (d) Network

72. The operator which is used for concatenation? (Mar-2023)

(a) *   **(b) +**   (c) =   (d) &

73. Importing C++ program in a Python program is called (Mar-2023)

(a) Interconnecting   **(b) Wrapping**   (c) Parsing   (d) Downloading

74. command is used to remove a table from the database (Mar-2023)

(a) DELETE ALL **(b) DROP TABLE**   (c) ALTER TABLE   (d) DELETE

75. The datatype whose representation is known are called: (Mar-2023)

(a) Concrete datatype   (b) Built-in datatype

(b) (c) Abstract datatype   (d) Derived datatype

76. A Function which calls itself, is called as : (Mar-2023)

(a) Lambda   (b) Built-in   (c) Return statement   **(d) Recursion**

77. In dynamic programming, the technique of storing the previously calculated values is called :

(Mar-2023)

(a) Memoization   (b) Saving value property

(b) Mapping   (d) Storing value property

78. Let set A={3, 6, 9}, set B={1, 3, 9}. (Mar-2023)

The result of the following snippet Print (set A set B)

(a) {1}   (b) {3, 6, 9, 1, 3, 9}   **(c) {1, 3, 6, 9}**   (d) {3,9}

79. The variables in a function definition are called as: (JUNE-2023)

  (a) Subroutines (b) Function (c) Definition   **(d) Parameters**

80. Data Containers for mapping names of variables to object is called (JUNE-2023)

  (a) Scope (b) Mapping   (c) Binding   **(d) Namespaces**

81. The two main factors which decide the efficiency of an algorithm are (JUNE-2023)

  (a) Processor and Memory   (b) Complexity and capacity

  (c) Time and Space   (d) Data and space

82. The function which is called anonymous un-named function: (May-2022,JUNE-2023)

  (a) Lambda   (b) Recursion   (c) Function (d) Define

83. _____Is used as placeholders or replacement fields which get replaced along with format() function. (JUN-2023)

   (a){}   (b) <>   (c) ++   (d) ^^

84. Pick odd one in connection with collection data type. (JUNE-2023)

  (a) List (b) Tuple (c) Dictionary   **(d) Loop**

85. A table is known as (Jul-2022,JUNE-2023)

  (a) tuple   (b) attribute   (c) relation (d) entity

86. The Command used to skip a row in a CSV file: (JUNE-2023)

  (a) next()   (b) skip()   (c) omit() (d) bounce()

87. The most commonly used statement in SQL is: (JUNE-2023)

  (a) cursor   **(b) select**   (c) execute   (d) commit

2 mark Questions

1. What is a Pair? Give an example. (March–2020,Jun-2023)
2. What do you mean by Namespaces? (March–2020,Jul-2022)
3. What is an Algorithm? (March–2020)
4. Write categories of SQL commands. (March–2020)
5. Write the expansion of : (i) SWIG (ii) MinGW(March–2020)
6. What is the advantage of declaring a column as "INTEGER PRIMARY KEY"? (March–2020)
7. List the general types of data visualization. (March–2020,Mar-2023)
8. What will be the output of the given Python program? (March–2020)
9. List the characteristics of interface. (Sep-2020)
10. What are the characteristics of modules? (Sep-2020)
11. What are tokens in Python? List the types. (Sep-2020,Jun-2023)
12. What is the use of replace( ) in Python? Write the general format of replace( ). (Sep-2020)
13. Write the syntax to create list with suitable example in Python. (Sep-2020)
14. What are the advantages of DBMS? (Sep-2020)
15. What are the two ways to read a CSV file in Python? (Sep-2020)
16. List the types of visualizations in Matplotlib. (Sep-2020)
17. What are the advantages of user-defined functions? (Sep-2020)
18. Define Function with respect to programming language. (Sep-2021)
19. What are the different modes that can be used to test Python Program? (Sep-2021)
20. Write note on break statement. (Sep-2021)
21. Write the different types of function. (Sep-2021)
22. What is String ? (Sep-2021)
23. Write advantages of DBMS. (Sep-2021)
24. What is the theoretical difference between scripting language and other programming language? (Sep-2021)
25. What is list in Python? (Sep-2021)
26. What is Abstract Data Type? (May- 2022)
27. What is Mapping? (May- 2022)
28. What is Searching? Write its types. (May- 2022)
29. What are the different modes that can be used to test Python Program? (May- 2022)
30. Write the syntax of creating a tuple with 'n' number of elements. (May- 2022)
31. Differentiate unique constraint and primary key constraint. (May- 2022)
32. What is CSV file? (Sep-2021,May- 2022)
33. Define Data Visualization. (May- 2022)
34. Write the syntax of getopt.getopt method. (May- 2022)
35. Differentiate constructor and selector. . (July-2022)

38. Write note on range () in loop. . (Mar-2020,July-2022,Mar-2023)

40. What is meant by scope of variables? Mention its types. . (July-2022)

41. What is set in Python? . (July-2022,Jun-2023)

42. Mention few examples of Database Management System. . (July-2022)

43. Differentiate compiler and interpreter. . (July-2022)

44. Which method is used to fetch all rows from the database table? . (July-2022)

45. What will be the output of the following code? . (July-2022)

        Strl = "School"
        print (str1*3)

46. What is a Tuple? Give an example.

47. What is a scope?

48. How will you delete a string in Python?

49. Write note on range () in loop.

50. What is class?

51. What is Data Manipulation Language?

52. Mention the default modes of the File.

53. List the general types of data visualization.

54. What will be output of the following Python code?

        Squares=[x**2 for x in range(1,11)]
        print (squares)

55. What is a Tuple? Give an example. (MAR–2023)

56. What is a scope? (MAR–2023)

57. How will you delete a string in Python? (MAR–2023)

58. What is class? (MAR–2023)

59. What is Data Manipulation Language? (MAR–2023)

60. Mention the default modes of the File. (MAR–2023)

61. What will be output of the following Python code? (MAR–2023)

62. Differentiate Interface and Implementation. (JUNE-2023)

63. List the control structures in Python. (JUNE-2023)

64. What are the main advantages of function? (JUNE-2023)

65. What is data consistency? (JUNE-2023)

66. Write the difference between table constraint and column constraint. (JUNE-2023)

67. Write notes on: (i) MAX () function (ii) MIN () function (JUNE-2023)

3 Mark Questions

1. Differentiate pure and impure function. (Mar-2020)
2. Explain Ternary operator with example. (Mar-2020)
3. How recursive function works? (Mar-2020)
4. What will be the output of the following code? (Mar-2020)

```
list=[3**x for x in range(5)]
print(list)
```

5. Write short notes on TCL commands in SQL. (Mar-2020)
6. What is the difference between reader() and DictReader() function? (Mar-2020)
7. Write the output of the following program. (Mar-2020)

```
class Hosting:
def__init__(self, name):
self._name=name
def display(self):
print(" Welcome to", self. name)
obj=Hosting("Python Programming")
obj.display()
```

8. What is a selector? (Sep-2020)
9. What are the parts of a program? (Sep-2020)
10. Write note on Dynamic Programming. (Sep-2020)
11. Write the syntax of Nested if..elif...else statement with example. (Sep-2020)
12. Write short note on public and private data members in Python. (Sep-2020)
13. Write note on types of DBMS users. (Sep-2020)
14. Write short note on DELETE, TRUNCATE, DROP command in SQL. (Sep-2020)
15. What are the applications of scripting languages? (Sep-2020)
16. Write short note on : (Sep-2020)
    (a) GROUP BY (b) ORDER BY clause - in SQL
17. What will be the output of the given Python program? (Sep-2020)
    ```
    a=""Computer"
    b="Science"
    x=a[:4]+b[len(b)-3:]
    print(x)
    ```

18.Define Abstraction. What is abstract data type? (Sep-2021)

19.Define Local scope with an example. (Sep-2021)

20.What is an Algorithm? List any three characteristics of an algorithm.

(Sep-2021,May-2022)

21.What are the advantages of Tuples over a list (Sep-2021)

22.What are class members ? How do you define it? (Sep-2021)

23.Write any three DDL commands. (Sep-2021)

24.What is the difference between the write mode and append mode (Sep-2021)

25.Differentiate Python and C++. (Sep-2021,Jun-2023)

26.List the difference between break and continue statements. (May-2022)

27.Write the rules of local variable. (May-2022)

28.What is sys.argv? (May-2022)

29.What is the use of 'where clause'? Give a Python statement using the where clause.
   (May-2022)

30.Write any three uses of data visualization. (May-2022)

31.Write short notes on Arithmetic Operator with example. (Sep-2021,May-2022)

32.Write a SQL statement using DISTINCT keyword. (May-2022)

33.Write a program to get the following output : (May-2022)

```
        A
        A B
        A B C
        A B C D
        A B C D E
```

34.Write the syntax of 'while' loop. (July-2022,Mar-2023)

35.Write the basic rules for global keyword in python. (July-2022)

36.Identify the module, operator, definition name for the following : (July-2022)
        welcome.display()

37.Mention the difference between fetchone () and fetchmany ().

(Mar-2020,July-2022,Mar-2023)

38.Write a python program to modify an existing file. (July-2022)

39.Write a SQL statement to modify the student table structure by adding a new field.
   (July-2022)

40.Write a note on open () function of Python. What are the differences between its two
   methods? (July-2022)

41.List the general types of data visualization. (July-2022)

42.What is the output of the following program? (July-2022)

```
    class Greeting :
    def _ init _ (sell, name) :
    self._ name = name
```

```
def display (self) :
print ("Good Morning", self. name)
obj = Greeting("Bindu Madhavan")
obj.display ()
```

43. Mention the characteristics of Interface. (Mar-2023)
44. What do you understand by Dynamic Programming? (Mar-2023)
45. Explain Ternary operator with an example. (Mar-2023)
46. Differentiate - ceil() and floor () function. (Mar-2023)
47. What is the difference between csvreader() method and DictReader () class? (Mar-2023)
48. Write a Python program to display the given pattern. (Mar-2023)

```
C O M P U T E R
C O M P U T E
C O M P U T
C O M P U
C O M P
C O M
C O
C
```

49. Write about the steps of Python program executing C++ program using control statement. (Mar-2023)
50. Write any three characteristics of modules. (JUNE-2023)
51. Write a note on Asymptotic notation. (Mar-2020,JUNE-2023)
52. What are string literals ? (JUNE-2023)
53. Write a note on if..else Structure. (JUNE-2023)
54. Write about composition in functions with an example. (JUNE-2023)
55. What are the differences between List and Dictionary? (JUNE-2023)
56. What is the role of DBA ? (JUNE-2023)
57. Write a Python code to check whether a given year is leap year or not. (JUNE-2023)

5 mark Questions

1. Discuss about Linear Search algorithm with example. (Mar-2020)
2. Explain input() and print() functions with example. (Mar-2020)
3. Write a program to display all 3 digit even numbers. (Mar-2020)
4. Write the output for the following program. (Mar-2020)

```
i=1
while(i<=6):
for j in range(1, i):
print(j,end="\t)
print(end="\n)
i+=1
```

5. Explain the following built-in functions : (Mar-2020)

    (i)id()   (ii) chr()   (iii) round()   (iv) type()   (v) pow()

6. Write the output for the following Python commands : (Mar-2020)

    str1="Welcome to Python"
        (i)print(str1)
        (ii) print(str1[11 : 17])
        (iii) print(str1[11 : 17 : 2])
        (iv) print(str1[: : 4])
         (v) print(str1[: : —4])

7. How to define constructor and destructor in Python? Explain with example.
                                            (Mar-2020, Sep-2020)

8. Explain the different set operations supported by Python with suitable example. (Mar-2020)
9. Differentiate DBMS and RDBMS. (Mar-2020)
10. Write a SQL statement to create a table for employee having any five fields and Create a table constraint for the employee table. (Mar-2020)
11. Write the features of Python over C++.(Mar-2020)
12. Explain the types of variable scope. (Sep-2020)
13. Explain data types in Python with suitable example. (Sep-2020)

14. Write the output for the following Python programs. (Sep-2020)

```
(i) j=15
while(j>=10):
print(j, end="\t")
j=i-1
else:
print("\n End of the loop")

(ii) k=5
while(k<=9):
fori in range(1, k):
print(i, end='\t')
print(end="\n")
k=k+1
```

15. Write about the following Python string functions. (Sep-2020)
    (i)capitalize()   (ii) swapcase()   (iii) center()   (iv) islower()   (v) title()

16. Debug the following Python program to get the given output : (Sep-2020)

Output:
```
Inside add( ) function x value is : 10
In main x value is : 10.
Program:
x=0
define add:
    globally x:
    x=x+10
    print("Inside add( ) function X value 15 :
    add
    print("In main x value is 2)
```

17. What is set in Python? Explain the following set operations with suitable example. (Sep-2020)

    (i)Union   (ii) Intersection   (iii) Difference

18. Explain the types of data model. (Sep-2020)

19. Explain the types of constraints in SQL with suitable example. (Sep-2020)

20. List the differences between CSV and excel sheets (XLS) file. (Sep-2020)

21. What is Binary Search? Discuss with example. (Sep-2021)

22. Discuss in detail about Tokens in Python. (Sep-2021)

23. Write a detail note on for loop. (Sep-2021)

24. Explain the scope of variables with an example. (Sep-2020,Sep-2021,Jun-2023)

25. What is slicing? (Sep-2021)

26. What is output for the following Python Commands? (Sep-2021)

   str = "Thinking with Python"
   (i)print(str[::3])   (ii) print(str[::—3])   (iii) print(str[9:13])

27. What is the purpose of range()? Explain with an example. (Sep-2021)
28. Explain the characteristics of DBMS. (Sep-2021)
29. Write the different types of constraints and their functions. (Sep-2020,Sep-2021,Jul-2022)
30. Write the Python script to display all the records of the following table using fetchmany().(Sep-2021)

Icode	ItemName	Rate
1003	Scanner	10500
1004	Speaker	3000
1005	Printer	8000
1008	Monitor	15000
1010	Mouse	700

31. Write any five key differences between Histogram and Bar Graph. (Sep-2021)
32. What are called Parameters? (May-2022)
33. Write a note on : Parameter without type and Parameter with type. (May-2022)
34. Explain LEGB rule with example. (May-2022)
35. Explain Bubble Sort Algorithm with example. (May-2022)
36. Construct the following SQL statements in the student table, (May-2022)
     (i)SELECT statement using GROUP BY Clause
     (ii) SELECT statement using ORDER BY Clause
37. Explain input() and output( ) functions with example. (Mar-2021,May-2022,Jun-2022)
38. Explain the purpose of the following functions : (May-2022)
     (i)plt.xlabel   (ii) plt.ylabel   (iii) plt.title   (iv) plt.legend( )   (v) plt.show()
39. Write a detail note on for loop. (Sep-2021, May-2022,Jul-2022)
40. Differentiate Excel file and CSV file. (Sep-2020,May-2022)
41. Explain the different set operations supported by Python with suitable example. (May-2022)
42. Explain each word of the following command. (May-2022)
       Python <filename.py> — <i><C++ filename without cpp extension
43. Discuss about linear search algorithm. (Mar-2020,July-2022,Mar-2023)
44. Explain the different types of function with an example. (July-2022)
45. What is nested tuple? Explain with an example. (July-2022)
46. Explain about SQLite and the steps to be used. (July-2022)
47. Explain the different types of operators used in Python. (July-2022)
48. Explain the characteristics of DBMS. (Sep-2021,July-2022,Jun-2023)
49. Write the different methods to read a file in Python. (July-2022)
50. What is the purpose of range ()? Explain with an example. (Sep-2021,July-2022)

51. What is a List? Why List, can be called as pairs? Explain with suitable example. (Mar-2023)
52. Discuss in details about Token in Python. (Sep-2021,Mar-2023)
53. Explain the following built-in function. (Mar-2023)
   (i)id()   (ii) chr()   (iii) round()   (iv) type   (v) pow()
54. What is Nested Tuple? Explain with an example. (Jul-2022,Mar-2023)
55. Explain the different types of relationship mapping. (Mar-2023)
56. Write the syntax for getopt() and explain its arguments and return values. (Mar-2023)
57. Differentiate DBMS and RDBMS. (Mar-2020,Mar-2023)
58. Explain about differences between Histogram and Bar Graph. (Sep-2021,Mar-2023)
59. Explain 'continue' statement with an example. (Mar-2023)
60. What is Binary Search? Explain with an example. (Sep-2021,JUNE-2023)
61. How will you facilitate data abstraction? Explain it with suitable example. (JUNE-2023)
62. Explain about string operators in Python with suitable example. (JUNE-2023)
63. What are the different ways to insert an element in a list? Explain with suitable example.
                                                                                    (JUNE-2023)
64. Explain about SQLite and the steps to be used. (Jul-2022,JUNE-2023)
65. Write the different methods to read a file in Python. (Jul-2022,JUNE-2023)
66. Write any five features of Python. (JUNE-2023)

Best of Luck