SECOND REVISION EXAMINATION - 2025

12 - Std

Time : 3.00 Hrs

COMPUTER SCIENCE
SALEM DISTRICT

Marks : 70

I   Choose the correct answer :   **15 X 1 = 15**

1 Which of the following defines what an object can do ?
   a) Operating system   b) Compiler   c) interface   d) Interpreter

2 Which of the following allow to name the various parts of a multi-item object ?
   a) Tuples   b) Lists   c) Classes   d) Quadrats

3 Which memebers are accessible from outside the class ?
   a) Public members   b) Protected members
   c) Secured members   d) Private members

4 Which of the following sorting algorithm needs the minimum number of swaps ?
   a) Bubble sort   b) Quick sort   c) Merge sort   d) Selection sort

5 Which of the following function is used to display the result of the program on the screen ?
   a) input ( )   b) int ( )   c) display ( )   d) print ( )

6 What will be the output of the following python code?
   ```
   for i in range(10,15):
   print(i, end=' ')
   ```
   a) 10,11,12,13,14   b) 10 11 12 13 14
   c) 10,11,12,13,14,15   d) 10 11 12 13 14 15

7 Which of the following argument takes a default value if no value is provided in the function call ?
   a) Required Argument   b) Default argument
   c) Keyword argument   d) Variable length

8 Which of the following is membership operator ?
   a) in   b) not in   c) [ ]   d) Both a and b

9 Which of the following statement is correct ?
   A) List is an ordered collection fo values enclosed with square brackets [ ]
   B) Set is a mutable and an unordered collection of elements which allows duplicates.
   a) Statement A is correct   b) Statement B is correct
   c) Both are not correct   d) Both are correct

10 The process of creating an object is called as
    a) Constructor   b) Destructor   c) Initialize   d) Instantiation

11 Which command lets to change the structure of the table?
    a) SELECT   b) ORDER BY   c) MODIFY   d) ALTER

12 Which of the following creates an object which maps data to a dictionary ?
    a) listreader()   b) reader( )   c) tuplereader()   d) DictReader()

13 Which module allows you to interface with the Windows Operating system?
    a) sys module   b) OS module   c) getopt module   d) csv module

14 Which of the following clause avoids duplicate ?
    a) Distinct   b) Remove   c) Where   d) Groupby

15 Identify the package manager for Python packages , or modules.
    a) Matplotlib   b) PIP   c) plt.show()   d) python package

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II Answer any Six questions and Question number 24 is compulsory : 6X2=12

16 Differentiate interface and implementation.
17 What do you mean by Namespaces ?
18 What is Searching? Write its types.
19 What is base condition in recursive function.
20 How will you delete a string in Python ?
21 What is normalization ?
22 What is the use of next() function ?
23 List the general types of Data visualization.
24 Write a SQL query to remove the employees who are mechanic.
    (Designation="MECHANIC")

III Answer any Six questions and question number 33 is compulsory. 6 X 3 = 18

25 What are the different ways to access the elements of a list. Give example.
26 What do you understand by Dynamic programming?
27 Write a short note on range() in loop and give an example.
28 Write the basic rules for global keyword in python.
29 Write short notes for the followings with suitable example
    a) capitalize()   b) swapcase()   c) count()
30 What are the difference between list and dictionary ?
31 Write the use of savepoint command with an example.
32 Write a short note on   (i) fetchall()   (ii) fetchone()   (iii) fetchmany()
33 What is the output of the following program?

```
class student:
def __ init__ (self,m1,m2,m3):
print("Constructor of class student")
self.mark1=m1
self.mark2=m2
self.mark3=m3
def process(self):
total=self.mark1+self.mark2+self.mark3
avg=total/3
print("Total Marks = ",total)
print("Average Marks = ",avg)
s=student(85,75,95)
s.process()
```

IV Answer all the questions.   5 X 5 = 25

34 Explain Pure and Impure functions with example. *(OR)*
    Write any five characteristics of Modules.
35 Discuss in detail about Tokens in python. *(OR)*
    Write a program to display sum of natural number upto n.
36 Explain the different types of function with an example. *(OR)*
    What are the different ways to insert an element in a list. Explain with suitable example.
37 Explain the different types of data models. *(OR)*
    Write a Python program to read a CSV file with default delimiter comma(,)
38 What is the purpose of sys,os,getopt module in Python. Explain. *(OR)*
    List the key differences between Histogram and Bar graph.

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