

**SECOND REVISION EXAMINATION - 2025****12 - Std****COMPUTER SCIENCE**

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**Time : 3.00 Hrs****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 members 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

**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.