

RS-I

**FIRST REVISION EXAMINATION - 2025****12 - STD****COMPUTER SCIENCE**

Time : 3.00 Hrs

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Marks : 70

**PART - I**

Note: (i) Answer all the questions (ii) choose the most appropriate answer from the given four alternatives and write the option code and the corresponding answer. 15\*1=15

1. Which of the following carries out the instructions defined in the interface?  
(A) Operating System (B) Compiler (C) Implementation (D) Interpreter
2. Which of the following is a compound structure?  
(A) Pair (B) Triplet (C) single (D) quadrat
3. Which of the following is used in programming languages to map the variable and object?  
(A) :: (B) := (C) = (D) ==
4. Big  $\Omega$  is the reverse of  
(A) Big O (B) Big  $\theta$  (C) Big A (D) Big S.
5. Which of the following is not Logical operator?  
(A) and (B) or (C) not (D) Assignment
6. How many important control structures are there in Python?  
(A) 3 (B) 4 (C) 5 (D) 6
7. Which function is called anonymous un-named function  
(A) Lambda (B) Recursion (C) Function (D) define
8. What will be the output of the following code?  
str1 = "Chennai Schools"  
str1[7] = "-"  
(A) Chennai-Schools (B) Chenna-School (C) Type error (D) Chennai
9. What is the use of type() function in python?  
(A) To create a Tuple (B) To know the type of an element in tuple.  
(C) To know the data type of python object. (D) To create a list.
10. The process of creating an object is called as:  
(A) Constructor (B) Destructor (C) Initialize (D) Instantiation
11. Which database model represents parent-child relationship?  
(A) Relational (B) Network (C) Hierarchical (D) Object
12. Which of the following is a string used to terminate lines produced by writer() method of csv module?  
(A) Line Terminator (B) Enter key (C) Form feed (D) Data Terminator
13. The expansion of CRLF is  
(A) Control Return and Line Feed (B) Carriage Return and Form Feed  
(C) Control Router and Line Feed (D) Carriage Return and Line Feed
14. Which of the following keyword avoid the duplicate?  
(A) Distinct (B) Remove (C) Where (D) GroupBy
15. Read the statements given below. Identify the right option from the following for pie chart.  
Statement A : To make a pie chart with Matplotlib, we can use the plt.pie() function.  
Statement B : The autopct parameter allows us to display the percentage value using the Python string formatting.  
(A) . Statement A is correct (B) Statement B is correct  
(C) . Both the statements are correct (D) Both the statements are wrong

**PART - II**

ANSWER ANY SIX. Q NO: 24 IS COMPULSORY.

6 X 2 = 12

16. Differentiate constructors and selectors.
17. What do you mean by Namespaces?
18. Write short notes on Tokens.
19. What is meant by scope of variable? Mention its types.
20. Differentiate del with remove() function of List.



21. List some examples of RDBMS.
22. What is CSV File?
23. What is the advantage of declaring a column as "INTEGER PRIMARY KEY"?
24. What is the theoretical difference between Scripting language and other programming language?

### PART – III

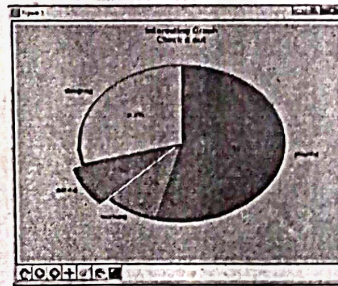
ANSWER ANY SIX , Q NO : 33 IS COMPULSORY

6 X 3 = 18

25. Mention the characteristics of Interface.
26. What are the factors that influence time and space complexity.
27. Write the syntax of while loop.
28. What will be the output of the given python program?  

```
str1 = "welcome"
str2 = "to school"
str3 = str1[:2] + str2[len(str2)-2:]
print(str3)
```
29. What are class members? How do you define it?
30. Write any three DDL commands.
31. What is MinGW? What is its use?

32. Write the plot for the following pie chart output.



33. What is the use of Where Clause. Give a python statement Using the where clause.

### PART – IV

ANSWER THE FOLLOWING

5 X 5 = 25

34. Identify in the following program  

```
let rec gcd a b :=
if b <> 0 then gcd b (a mod b) else return a.
```

  - i) Name of the function
  - ii) Identify the statement which tells it is a recursive function
  - iii) Name of the argument variable
  - iv) Statement which invoke the function recursively
  - v) Statement which terminates the recursion

(OR)

Explain the types of scopes for variable or LEGB rule with example.

35. What is Binary search? Discuss with example. (OR)

Write a detail note on if..else..elif statement with suitable example

36. Explain the following built-in functions.  
(a) id() (b) chr() (c) round() (d) type() (e) pow() (OR)

What is nested tuple? Explain with an example.

37. Explain the characteristics of RDBMS (OR)

Write the different methods to read a File in Python.

38. Write the syntax for getopt() and explain its arguments and return values. (OR)

Write the Python script to display all the records of the following table using fetchmany ( )

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