

Class : 12

Register

SECOND REVISION EXAMINATION - 2025

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Time Allowed : 3.00 Hours]

COMPUTER SCIENCE

[Max. Marks : 70

PART - I

Note : i) Answer all the questions.

15X1 = 15

ii) Choose the most appropriate answer from the given four alternatives and write the option code and the corresponding answer.

1. The values which are passed to a function definition are called
a) Arguments b) Subroutines c) Function d) Definition
2. The data type whose representation is unknown are called
a) Built in datatype b) Derived datatype c) Concrete datatype d) Abstract datatype
3. Containers for mapping names of variables to objects is called.
a) Scope b) Mapping c) Binding d) Namespaces
4. The word comes from the name of a Persian mathematician Abu Ja'far Mohammed ibn-i Musa al Khwarizmi is called?
a) Flowchart b) Flow c) Algorithm d) Syntax
5. Let a=8, b=12. Then x=a if a>10 else b. Thus, which of the following value will be assigned to variable x in Python?
a) 10 b) 8 c) 12 d) None of these
6. Which statement is generally used as a placeholder?
a) continue b) break c) pass d) goto
7. Which function is called anonymous un-named function
a) Lambda b) Recursion c) Function d) define
8. Which of the following operator is used for concatenation?
a) + b) & c) * d) =
9. What will be the result of the following Python code?
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]
10. The process of creating an object is called as:
a) Constructor b) Destructor c) Initialize d) Instantiation
11. What symbol is used for SELECT statement?
a) σ b) π c) X d) Ω
12. Which of the following SQL command is used to delete all the rows, the structure remains in the table?
a) Delete b) Backspace c) Drop d) Truncate
13. The command used to skip a row in a CSV file is
a) next() b) skip() c) omit() d) bounce()
14. SQLite falls under which database system?
a) Flat file database system b) Relational Database system
c) Hierarchical database system d) Object oriented Database system
15. Which is a python package used for create 2D graphics?
a) matplotlib.pyplot b) matplotlib.pip c) matplotlib.numpy d) matplotlib.plt

PART - II

Note: Answer any six questions. Question number 24 is compulsory.

6x2=12

16. What are the different operators that can be used in Python?

17. Write the syntax of if..else statement.
18. What are the main advantages of function?
19. What will be the output of the following Python code?

```
str1='CHENNAI SCHOOLS'
print(str1.lower())
print(str1.islower())
```
20. How will you create constructor in Python?
21. What is normalization?
22. Mention the two ways to read a CSV file using Python.
23. What is Data Visualization?
24. Let list=[10, 12, 14, 18, 20], Write the python code to insert the value16 inbetween14 and 18.

PART - III

Note: Answer any six questions. Question number 33 is compulsory.

6x3=18

25. (a) What is selector? (b) What are the parts of a program?
26. Discuss about Algorithmic complexity and its types.
27. Write the syntax of 'while' loop.
28. What will be the output of the following code?

```
mytup1=12,14
mytup2=16,18
print(mytup1+mytup2)
```
29. How do define constructor and destructor in Python?
30. Write a short note on (i) Alter (ii) Truncate (iii) Drop.
31. Identify the module, operator, definition name for the following welcome.display()
32. Write the coding for the following:
 - a) To check if PIP is Installed in your PC
 - b) To Check the version of PIP installed in your PC.
 - c) To list the packages in matplotlib.
33. What will be the output of the given Python program?

```
a="Computer"
b="Science"
x=a[4]+b[len(b)-3:]
print(x)
```

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Note: Answer all questions.

5x5=25

34. (a) Explain Pure and impure functions with an example. (OR)
 (b) Write any five benefits in using modular programming.
35. (a) Explain input() and print() functions with examples. (OR)
 (b) Explain the jump statements in Python with suitable examples.
36. (a) Explain the following built-in functions with suitable examples.
 (1) id() (2) chr() (3) round() (4) type() (5) pow() (OR)
 (b) Write the output for the following Python commands:

```
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])
37. (a) What is the purpose of range()? Explain with an example. (OR)
 (b) Explain the different operators in Relational algebra with suitable examples.
38. (a) Write the different types of constraints and their functions. (OR)
 (b) Explain the various buttons in a matplotlib window.