

PADASALAI'S CENTUM TEAM
PRE - PUBLIC EXAMINATION - 2023

Marks : 70

STD : XII - EM

COMPUTER SCIENCE

Time : 3Hrs

I Choose the correct answer :

15 x 1 = 15

1. Which of the following is a distinct syntactic block?
 a) Subroutines b) Functions c) Definition d) Modules
2. Bundling two values together into one can be considered as
 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. The word comes from the name of a Persian mathematician Abu Ja'far Mohammed ibn-i Musa al Khowarizmi is called?
 a) Flowchart b) Flow c) Algorithm d) Syntax
5. Which is not a compound operator in python?
 a) = b) += c) *= d) **=
6. Which is the most comfortable loop?
 a) do...while b) while c) for d) if...elif
7. Which is not a classification of function?
 a) Build in b) User Defined c) lambda d) derived
8. What will be the output of the following code?

```
str1 = "Chennai Schools"
str1 = "-"
```

 a) Chennai-Schools b) - c) Type error d) Chennai
9.

```
for i in range(5,15,3)
    print(i)
```

 What is the output?
 a) 5 4 3 2 1 b) 5 10 15 c) 5 8 11 14 d) 3 4 56
10. Which of the following class declaration is correct?
 a) class class_name b) class class_name<>
 c) class class_name:
 d) class class_name[]
11. What type of relationship does hierarchical model represents?
 a) one-to-one b) one-to-many c) many-to-one d) many-to-many
12. When the first version of SQL was developed?
 a) 1986 b) 1970 c) 1992 d) 2008
13. Which method free up the resources that were tied with a python file?
 a) remove() b) close() c) delete() d) pop()
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. Zooming in will require
 a) a left click b) a right click c) a left click and drag d) a right click and drag

II Answer any SIX of the following questions:(24 is compulsory)

6 x 2 = 12

16. What is a subroutine?
17. Why scope should be used for variable. State the reason.
18. Define Pseudo code.
19. Write short notes on Exponent data?
20. What are the main advantages of function?
21. How will you create constructor in Python?
22. What is the difference between SQL and MySQL?
23. What will be the output of the following code?
list = [x**2 for x in range(6)]
print(list)

24. Write syntax of getopt.getopt() method.

III Answer any SIX of the following questions:(33 is compulsory)

6 x 3 = 18

25. Which strategy is used for program designing? Define that strategy.
26. Why Access control is required?
27. What are the rules for creating identifier?
28. Differentiate ceil() and floor() function?
29. How do define constructor and destructor in Python?
30. What is the role of DBA?
31. What is the difference between the write mode and append mode.
32. Mention the difference between fetchone() and fetchmany()
33. What are Membership operators? Explain with example.

IV Answer ALL the questions:

5 x 5 = 25

34. How will you facilitate data abstraction. Explain it with suitable example.

(OR)

Explain the Bubble sort algorithms with example.

35. Describe in detail the Procedure script mode programming.

(OR)

Write a detail note on while loop.

36. Explain about string operators in python with suitable example.

(OR)

Write a program to generate values from 1 to 10 and then remove all the odd numbers from the list

37. Explain the different types of data model.

(OR)

Explain Writing CSV File into a Dictionary.

38. Write a Python program to execute the following c++ coding

```
#include <iostream>
using namespace std;
int main()
{
    cout<<"WELCOME";
    return(0);
}
```

The above C++ program is saved in a file welcome.cpp

(OR)

What are the key difference between Histogram and Bargraph.