XII   Reg.No [ ] [ ] [ ] [ ] [ ] [ ] [ ]

Padasalai's Centum Special Question Paper

COMPUTER SCIENCE - FULL PORTION EXAM - 1

Time : 3.00 hours   **Max. Marks : 70**

PART – I

Note : i) Answer all the questions   **15x1=15**
    ii) Choose the most appropriate from the given four alternatives and write the option code and corresponding answer

1. Which of the following defines what an object can do?
        a. Operating System   b. Compiler   c. Interface   d. Interpreter

2. The data type whose representation is unknown is called.............
    a. Built in data type   b. Derived Data Type
    c. Concrete Data type   d. Abstract data type

3. The kind of scope of the variable 'a' used in the pseudo code given below.......
    Disp( ):
        a:=7
        print a
    Disp( )
    a. local   b. global   c. enclosed   d. built in

4. Big Ω is the reverse of..............
    a. Big O   b. Big Θ   c. Big A   d. Big S

5. This symbol is used to print more than one item on a single line.
        A) Semicolon(;)   B) Dollor($)   C) comma(,)   D) Colon(:)

6. What will be the output of the following python code?
    fori in range(1,10,2):
        print(i,end=' ')
    a. 1 3 5 7 9   b. 1 2 4 6 8   c. 2 4 6 8 10   d. 1 3 5 7 10

7. Evaluate the following function and write the output
    x=14.4
    print(math.ceil(x))
    a. 13   b. 14   c. 15   d. 14.3

8. What will be the output of the following snippet?
    str1="COMPUTER"
    print(str1[::2])
    a. ER   b. CO   c. OPTR   d. CMUE

9. Marks=[20,40,60,80,100]
    print(marks[-2]) What will be the output?
    a. 60   b. 100   c. 40   d. 80

10. Which of the following is the private class variable?
        (a) __num   (b) ##num   (c) $$num   (d) &&num

11. The data model developed by IBM is...........
    a. Hierarchical   b. Relational   c. Network   d. ER

12. The original version of SQL is released in the year.........
    a. 1970   b. 1980   c. 1986   d. 1992

13. The python file mode open a file for exclusivecreation............
    a. w   b. x   c. b   d. a

14. .... is a built in variable which evaluates to the name of the current module.
   a. __name__   b. __main__   c. __mode__   d. __init__
15. To make a bar chart with matplotlib, which function should be used?
   a. plt.bar( )   b. plt.chart( )   c. pip.bar( )   d. pip.chart( )

PART – II

Note : Answer any six questions : Q.No 24 is compulsory   6x2=12

16. Differentiate interface and implementation.
17. Define enclosed scope with an example.
18. Differentiate algorithm and program.
19. Write is the syntax of if-else statement.
20. How will you delete a string in python?
21. What is the difference between SQL and MySQL?
22. How the CSV file operation takes place in python?
23. Which method is used to fetch all rows from the database table?
24. Write the output for the following program:
   for word in "Jump Statement":
      for word = ="e":
         continue
      print (word,end=' ')
   print("\n End of the program")

PART – III

Note : Answer any six questions : Q.No 33 is compulsory   6x3=18

25. What are the different ways to access the elements of a list? Give example.
26. What are the key features of Python?
27. Write the basic rules for global keyword in python.
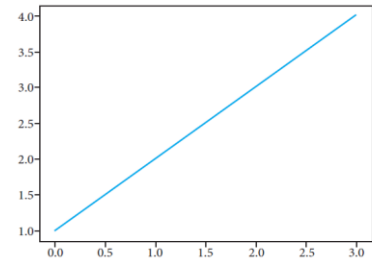28. What is the use of operator += in python string operation?
29. What are the difference between list and tuples?
30. How to define constructor and destructor in python?
31. What is the role of DBA?
32. Differentiate Python and C++.
33. Write a python code to display the following chart:

PART – IV

Note : Answer all the questions: 5x5=25

34. What are called parameters and write a note on :
    i) Parameter without type   ii) Parameter with type   **(OR)**
    What is binary search? Discuss with example.
35. Describe in detail the procedure script mode programming.   **(OR)**
    Write a detail note on for loop.
36. Explain the following built in functions:
    i) id( )   ii) chr( )   iii) round( ) iv) type( )   v) pow( )   **(OR)**
    What are different ways to insert an element in a list? Explain with suitable example.
37. Differentiate DBMS and RDBMS.   **(OR)**
    What are the components of SQL? Write the commands in each.
38. Write the rules to be followed to format the data in a CSV file. **(OR)**
     What is the purpose of sys, os, getopt module in python? Explain.