XII   Reg.No

Padasalai's Centum Special Question Paper

COMPUTER SCIENCE   -   FULL PORTION EXAM - 2

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 carries out the instructions defined in the interface?
    (A) Operating System   (B) Compiler   (C) Implementation (D) Interpreter

2. A sequence of immutable objects is called
    (A) Built in   (B) List   (C) Tuple   (D) Derived data

3. Which are loaded as soon as the library files are imported to the program?
    a. Built in scope variables   b. enclosed scope variables
    c. Global scope variables   d. Local scope variables

4. Which one of the following is not a factor measure the execution time of an algorithm?
    a. Speed of the machine   b. Operating system
    c. Programming language used   d. selection

5. Which of the following character is used to give comments in Python Program ?
          A) #   B) &   C) @   D) $

6. The output of the segment..........
          fori in range(10,0,2)
              print(i)
    a. 10 9 6 4 2 0   b. 10 8 6 4 2   c. 0 2 4 6 8 10   d. Error

7. Non – keyword variable arguments are called as ....
    a. sets   b. List   c. Tuples   d. Dictionary

8. 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]

9. The function defined inside a class is called as..............
    a. Attribute   b. Parameter   c. arguments   d. methods

10. The symbol of project in relational algebra of DBMS:
    a. σ b. π c. $\cap$ d. $\cup$

11. .... command is used to remove a table from the database.
    a. DELETE ALL   b. DROP TABLE   c. ALTER TABLE d. DELETE

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. Importing C++ program in a Python program is called
          (A) wrapping   (B) Downloading (C) Interconnecting   (D) Parsing

14. The function that returns the largest value of the selected column is
          (A) MAX()   (B) LARGE()   (C) HIGH()   (D) MAXIMUM()

15. Which key is used to run the module?
          a. F6   b. F4   c. F3   d. F5

PART – II

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

16. What is a pair? Give an example.
17. What do you mean by Namespaces?
18. Write the procedure for linear search.
19. What is a literal? Explain the types of literal?
20. What are the main advantages of functions?
21. What is set in python?
22. How csv.write( ) function is used to create a normal CSv file in python?
23. Differentiate compiler and interpreter.
24. Write the output for the following program:

```
def rem_vowels(s):
    temp_str= ' '
    for i in s:
        if i in "aAeEiIoOuU":
            pass
        else:
            temp_str+=i
    print("the string without vowels:",temp_str)
str1=input("Enter a string:")
rem_vowles(str1)
```

PART – III

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

25. Differentiate pure and impure function.
26. Write a note on Asymptotic notation.
27. Differentiate ceil( ) and floor( ) function.
28. What is output for the following python commands?
    str="Thinking with Python"
    a) print(str[::3])   b) print(str[::-3])   c) print(str[9:13])
29. What is the difference between select and project command?
30. What is a constraint? Write a short note on primary key constraint.
31. What is MinGW? What is its use?
32. Mention the difference between fetchone( ) and fetchmany().
33. Write a program to display

```
A
A    B
A    B    C
A    B    C    D
```

PART – IV

Note : Answer all the questions: 5x5=25

34. How will you facilitate data abstraction? Explain it with suitable example. **(OR)**
    Explain the insertion sort algorithm with example.
35. Discuss in detail about Tokens in python. **(OR)**
    Explain the various function arguments in Python.
36. Explain about string operators in python with suitable example. **(OR)**
    Mylist=[10,20,30,40,50,60,70,80,90,99]
    Write the python commands for the following based on above list
    a) to print all elements in list   b) Find list length
    c) Add multiple elements[110,120,130]   d) delete entire list
37. Write the different types of constraints and their functions. **(OR)**
    Differentiate Excel and CSV files.
38. Write any 5 features of python. **(OR)**
    Explain the various buttons in a matplotlib window.