XII   Reg.No

Padasalai's Centum Special Question Paper

COMPUTER SCIENCE   -   FULL PORTION EXAM - 3

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 is a distinct syntactic block?
   (A) Subroutines   (B) Function   (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. Which of the following is a finite set of instructions to accomplish a particular task?
   a. Flowchart   b. Functions   c. Algorithm   d. Abstraction

5. The floor division operator in python?
   a. /   b. %   c. % %   d. //

6. What is the output of the following snippet?
   for in in range(2,10,2):
   print(i,end=' ')
   a. 8 6 4 2   b. 2 4 6 8 10   c. 2 4 6 8   d. 2 4 6

7. Which of the following special character is used to define variable length arguments?
   a. &   b. $ c. *   d. #

8. Which of the following is the slicing operator?
   (a) { }   (b) [ ]   (c) <>   (d) ( )

9. Let setA={3,6,9}, setB={1,3,9}. What will be the result of the following snippet?
   print(setA|setB)
   (a) {3,6,9,1,3,9}   (b) {3,9}   (c) {1}   (d) {1,3,6,9}

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. Which is a data control language command in SQL?
    a. Alter   b. Grant   c. Truncate   d. Commit

12. The command used to skip a row in a CSV file is
    (A) next()   (B) skip()   (C) omit()   (D) bounce()

13. Which of the following can be used for processing text, numbers, images, and scientific data?
    (A) HTML   (B) C   (C) C++   (D) PYTHON

14. Which SQL function returns the number of rows in a table?
    a. SUM( )   b. MAX( )   c. CHECK()   d. COUNT( )

15. Identify the package manager for Python packages, or modules.
    a. Matplotlib   b. PIP   c. plt.show()   d. python package

PART – II

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

16. What is abstract data type?
17. What is a Scope?
18. Define Operator and Operand.
19. Write note on break statement.
20. What is instantiation?
21. Differentiate Unique and Primary key constraint?
22. Write about the steps of python program executing C++ program using control statement.
23. What is Data Visualization?
24. What will be the output of the given python program?
    a="Computer"
    b=" Science"
    x=a[:4] + b[len(b) – 3:]
    print(x)

PART – III

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

25. Mention the characteristics of interface.
26. What do you understand by dynamic programming?
27. Explain Ternary operator with examples.
28. Write the rules of local variable.
29. Write a short note about the following with suitable example: a) capitalize( ) b) swapcase( )
30. Write a note on different types of DBMS users.
31. What is the difference between the write mode and append mode.
32. What is sys.argv? What does it contain?
33. Write the output foe the following declaration :
     dict={x: 2*x for x in range (1,10)}

PART – IV

Note : Answer all the questions: 5x5=25

34. Explain LEGB rule with example.   **(OR)**
    Explain the bubble sort algorithm with example.
35. Write a detail note on if-else-elif statement with suitable example. **(OR)**
    Write a python code to find the L.C.M of two numbers.
36. Explain about constructor and destructor with suitable example.   **(OR)**
    Explain the different types of data model.
37. Construct the following SQL statements in the student table
     a) SELECT statement using GROUP BY clause.
     b) SELECT statement using ORDER BY clause.   **(OR)**
    Write the different methods to read a file in python.
38. Write in brief about SQLite and the steps used to use it.   **(OR)**
    Explain in detail the types of pyplots using matplotlib.