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NADAR HR.SEC.SCHOOL, RAJAPALAYAM. COMPUTER SCIENCE – MARCH - 2022

CLASS: 12

Time Allowed : 3.00 Hours Maximum Marks: 70 PART - I I. Choose the most appropriate answer from the given four alternatives and $15 \times 1 = 15$ Write the option code and the corresponding answer. Which of the following is a distinct Syntactic block? 1. (A) Definition (B) Subroutines (C) Modules (D) Function Which of the following will retrieve information from the data type ? 2. (A) Recursive (B) Constructors (C) Nested (D) Selectors 3. Containers for mapping names of variables to object is called : (A) Binding **(B)** Scope (C) Namespaces (D) Mapping The word comes from the name of a Persian Mathematician Abu Ja'far Mohammed ibn-i Musa al 4. Khowarizmi is called : (A) Algorithm Flowchart (B) (C) Syntax (D) Flow Which Operator is also called as Comparative Operator ? 5. (A) Logical Operator Arithmetic Operator (B) (C) Assignment Operator **Relational Operator** (D) 'elif' can be considered to be short form of 6. (A) else if (B) nested if (C) if...elif (D) if...else Which function is called as anonymous un-named function? 7. (A) Recursion (B) Lambda (C) Define (D) **Built-in** What will be the output of the following code ? 8. str1="Chennai Schools" str1[7]=" " (A) Type Error **Chennai-Schools (B)** (C) Chennai Chenna-School (D) 9. If List=[17, 23, 41, 10] then, List.append(32) will result : (A) [10, 17, 23, 32, 41] (B) [32, 17, 23, 41, 10] (D) [17, 23, 41, 10, 32] (C) [41, 32, 23, 17, 10] Which of the following method is used as destructor? 10. (A) __rem __() (B) __inti __() (C) __del__() (D) $_dest _()$ A tuple is also known as: 11. (A) Attribute (B) Table (C) Field (D) Row The clause used to sort data in a database: 12. (A) GROUP BY SORT BY **(B)** (C) SELECT (D) ORDER BY The expansion of CRLF is : 13. (A) Control Router and Line Feed (B) Control Return and Line Feed (C) Carriage Return and Line Feed (D) Carriage Return and Form Feed A Framework for interfacing Python and C++ is : 14. (A) Cython (B) Ctypes (C) Boost (D) SWIG SQLite falls under which database system ? 15. (A) Hierarchical Database System (B) Flat File Database System (C) Object Oriented Database System (D) Relational Database System

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PART - II

II . Answer any six questions. Question No. 24 is Compulsory.

- 16. What is Abstract Data Type ?
- 17. What is Mapping ?
- 18. What is Searching ? Write its types.
- 19. What are the different modes that can be used to test Python Program ?
- 20. Write the syntax of creating a tuple with 'n' number of elements.
- 21. Differentiate unique constraint and primary key constraint.
- 22. What is CSV file ?
- 23. Define Data Visualization.
- 24. Write the syntax of getopt.getopt method.

PART - III

III . Answer any six questions. Question No. 33 is compulsory.

- 25. List the characteristics of an Algorithm.
- 26. List the difference between break and continue statements.
- 27. Write the rules of local variable.
- 28. What is sys.argv ?
- 29. What is the use of 'where clause'? Give a Python statement using the where clause.
- 30. Write any three uses of data visualization.
- 31. Write short notes on Arithmetic Operator with example.
- 32. Write a SQL statement using DISTINCT keyword.
- 33. Write a program to get the following output :
 - A
 - A B A B C
 - A B C D
 - ABCDE

IV. Answer all the questions.

PART - IV

- 34. (A) (i) What are called Parameters ?
 - (ii) Write a note on Parameter without type and Parameter with type.

OR

- (B) Explain LEGB rule with example.
- 35. (A) Explain Bubble Sort Algorithm with example.

OR

- (B) Construct the following SQL statements in the student table.
 - (i) SELECT statement using GROUP BY Clause
 - (ii) SELECT statement using ORDER BY Clause
- 36. (A) Explain input() and output() functions with example.

(B) Explain the purpose of the following functions :

- (i) plt.xlabel
- (ii) plt.ylabel
- (iii) plt.title
- (iv) plt.legend()
- (v) plt.show()
- 37. (A) Write a detail note on for loop.
 - (B) Differentiate Excel file and CSV file.
- 38. (A) Explain the different set operations supported by Python with suitable example.

OR

OR

(B) Explain each word of the following command.
Python <filename.py>-<i><C++ filename without cpp extension>

Kindly Send me Your Key Answer to Our email id - Padasalai.net@gmail.Com



5 X 5 = 25

6 X 2 = 12

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