SHRI KRISHNA ACADEMY

NEET, JEE AND BOARD EXAM(10, +1, +2) COACHING CENTRE,EDUCATIONAL CONSULTANCY
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Computer Science
Half Yearly Examination-2020

Std. XII   Marks : 70

Code : A   Time : 3.00 Hrs.

Register Number : ☐☐☐☐☐☐

Section – A

I. Choose the best answers   15 x 1 = 15

1. The values which are passed to a function definition are called
   - (A) Arguments
   - (B) Subroutines
   - (C) Function
   - (D) Definition

2. Which of the following is a compound structure?
   - (A) Pair
   - (B) Triplet
   - (C) single
   - (D) quadrate

3. Containers for mapping names of variables to objects is called
   - (A) Scope
   - (B) Mapping
   - (C) Binding
   - (D) Namespaces

4. From the following sorting algorithms which algorithm needs the minimum number of swaps?
   - (A) Bubble sort
   - (B) Quick sort
   - (C) Merge sort
   - (D) Selection sort

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

6. Which statement is generally used as a placeholder?
   - A) continue
   - B) break
   - C) pass
   - D) goto

7. While defining a function which of the following symbol is used.
   - (a) ; (semicolon)
   - (b) . (dot)
   - (c) : (colon)
   - (d) $ (dollar)

8. What is stride?
   - (a) index value of slide operation
   - (b) first argument of slice operation
   - (c) second argument of slice operation
   - (d) third argument of slice operation

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 are the key features of an Object Oriented Programming language?
    - (a) Constructor and Classes
    - (b) Constructor and Object
    - (c) Classes and Objects
    - (d) Constructor and Destructor

11. What is the acronym of DBMS?
    - a) DataBase Management Symbol
    - b) Database Managing System
    - c) DataBase Management System
    - d)DataBasic Management System

12. The SQL original version was developed at IBM s Research centre and originally called as Sequel in early _____
    - a)1986
    - b)1992
    - c)2008
    - d)1970

13. By default "skipinitialspace" has a value _____
    - a)false
    - b)True
    - c)0 or 1
    - d)Both a and b.

14. Identify odd one for Applications of Scripting Languages ?
    - a)To automate certain tasks in a program
    - b) Importing information from a data set.
    - c) Less code intensive as compared to traditional programming language
    - d) can bring new functions to applications and glue complex systems together.

15. _____ clause groups records into summary rows..
    - a) GROUP BY
    - b) ORDER BY
    - c) WHERE
    - d)BETWEEN

Part – II

II. Answer to any six questions (Question number 24 is compulsory)   **6 × 2 = 12**

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. What are the main advantages of function?
21. Mention few examples of a database.
22. Mention the default modes of the File.
23. List the types of Visualizations in Matplotlib.
24. Write the expansion of (i) SWIG (ii) MinGW

Part – III

III. Answer to any SIX questions(Question number 33 is compulsory   **6 × 3 = 18**

25. Mention the characteristics of Interface.
26. Write short notes on Escape sequences with examples.
27. List the differences between break and continue statements.
28. What is composition in functions?
29. What are the advantages of Tuples over a list?
30. What is the role of DBA?
31. Differentiate PYTHON and C++
32. Write note on id( ) function?
33. Write the output of the following program?
```
str1="ABCDEFGH"
str2="ate"
for i in str1:
    print ((i+str2),end='\t')
```

PART-IV

IV. Answer all questions :   **5 x 5 = 25**

34. Write any Five Characteristics of Modules.   **(OR)**
    Explain the characteristics of an algorithm.
35. Write a detail note on for loop   **(OR)**
    Explain about string operators in python with suitable example.
36. Explain the different set operations supported by python with suitable example. **(OR)**
    Explain the different types of data model.
37. Differentiate Excel file and CSV file   **(OR)**
    Write any 5 features of Python.
38. Mytuple=(10,20,30,40,50,60,70,80,90,100)
    Write the python commands for the following based on the above list?
    (i)To print all element in tuple
    (ii)Find the length.
    (iiii)Delete second to seventh element?
    (iv)Delete entire tuple.   **(OR)**
    Draw the bar chart based on the following program?
```
import matplotlib.pyplot as plt
labels = ["TAMIL", "ENGLISH", "MATHS", "PHYSICS", "CHEMISTRY", "CS"]
usage = [79.8, 67.3, 77 8, 68.4, 70.2, 88.5]
y_positions = range (len(labels))
plt.bar (y_positions, usage)
plt.xticks (y_positions, labels)
plt.ylabel ("RANGE")
plt.title ("MARKS")
plt.show()
```