

# STUDENT'S - 100

## FULL PORTION MODEL QUESTION PAPER - 2

### 12 - COMPUTER SCIENCE

Time : 3 Hrs.

Marks : 70

#### PART : I

**Note:** (I) All the questions are compulsory. 15 x 1 = 15

(II) Choose the most appropriate answer from the given four alternatives and write the option code and the corresponding answer.

- Which of the following are mandatory to write type annotations in the function definition?
  - curly brace
  - indentations
  - square brackets
  - parenthesis
- Which of the following is used in programming languages to map variable and object?
  - = =
  - =
  - :=
  - ::
- The python prompt indicates that interpreter is ready to accept instruction.
  - <<<
  - <<
  - #
  - >>>
- What is the output of the following snippet?
 

```
i = 2
while True :
    if i % 4 == 0 :
        break
print ( i , end = " ")
i += 1
```

  - 1 2 3 4
  - 2 3 4
  - 2 3
  - 1 2 3 4 5

5. The code block always comes after \_\_\_\_\_
- a) ;                      b) ( )                      c) { }                      d) :
6. What will be the result of the following python code ?
- ```
S = [ X * * 2 for x is 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]
7. Class members are accessed through \_\_\_\_\_
- a) &                      b) %                      c) #                      d) .
8. A Row is known as \_\_\_\_\_
- a) Tuple                      b) Entity                      c) Attribute                      d) Relation
9. Which of the following clause is used to extract only the records which satisfy a given condition?
- a) Group By clause                      b) Where clause  
c) Having clause                      d) ORDER By clause
10. A CSV file is also known as \_\_\_\_\_
- a) Flat file                      b) 3 D file                      c) string file                      d) Random file
11. A frame work for interfacing python and C++ is \_\_\_\_\_
- a) ctypes                      b) SWIG                      c) cython                      d) Boost
12. Which of the following function finds the sum of all average in the average field of table.
- a) AVG()                      b) SUM( )                      c) ADD( )                      d) AVERAGE ( )
13. Which of the following plot is used to show the data as a collection of points?
- a) Box                      b) Scatter                      c) Line                      d) Infographics
14. Which of the following command is used to delete entire list?
- a) clear ( )                      b) del                      c) remove ( )                      d) pop ( )
15. Let A = { 3, 6, 9 } , B = {1, 3, 9} What will be the result of the following snippet?
- ```
Print ( A. intersection (B) )
```
- a) {1, 3, 6, 9 }                      b) {1}                      c) {3, 6, 9, 1, 3, 9}                      d) {3, 9}

**PART : II**

**Answer any SIX questions. ( Question No. 24 is Compulsory )      6 x 2 = 12**

16. What is mapping?
17. What is searching? Write its types.
18. What is meant by operator? And write the different operators that can be used in python
19. Write the syntax of if . . . else statement.
20. What is function? List out its types.
21. How will you delete a string in python?
22. Differentiate del ( ) and remove ( ) function of List .
23. Write the difference between the following functions:-  
Plt. plot ( [1, 2, 3, 4] )  
Plt. plot ( [1, 2, 3, 4] ) , [ 1, 4, 9, 16] )
24. How will you find the length of the given list? Write with an example.

**PART : III**

**Answer any SIX questions. ( Question No. 33 is Compulsory )      6 x 3 = 18**

25. List the characteristics of an algorithm.
26. Write a note "Conditional operator" with an example.
27. Write the syntax of "while" loop with an example.
28. What are the points to be noted while defining a function?
29. What are the advantages of Tuples over list?
30. Write a class with two private class variables and print the sum using a method.
31. Write a SQL statement to modify the student table structure by adding a new field.
32. What is sys.argv? What does it contain?
33. Write the code for the following :
  - a) To check if PIP is installed in your PC
  - b) To check the version of PIP installed in your PC
  - c) To list the packages is Mat plot lib.

**PART : IV**

*Answer all the questions.*

*5 x 5 = 25*

34. a) What are called parameters and write a note on

- i) Parameter with Type
- ii) Parameter without Type.

(or)

b) How will you facilitate data abstraction. Explain it with example.

35. a) Explain in detail about input ( ) and print ( ) functions with examples.

(or)

b) Write a detail note on 'for' loop.

36. a) Explain the scope of variables with an example.

(or)

b) Explain about string operators with examples.

37. a) Consider the following employee table.

Write SQL commands for given Questions.

Emp.code Name Design pay Allowance

S1001 Hari Operator 29000 12000

P1002 Shaji Supervisor 10000 5500

P1003 Pranav Operator 12000 6500

C1004 Manoj Clerk 8100 4500

M1005 Ratheesh Mechanic 20000 7000

(or)

b) Write the rules to be followed to format the data in a CSV file.

38. a) Write in brief about SQLite and the steps used to use it.

(or)

b) Explain in detail the types of pyplots using Matplotlib.

ALL THE BEST

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