2102

FIRST REVISION TEST - 2023

CLASS : 12

TIME : 3 HOURS

COMPUTER SCIENCE

MARKS : 70

I. Choose the correct answer : 15 x 1 = 15

1. The variables in a function definition are called as
   (a) Subroutines (b) Function (c) Definition (d) Parameters
2. The data type whose representation is known are called
   (a) Built in datatype (b) Derived datatype (c) Concrete datatype (d) Abstract datatype
3. The process of subdividing a computer program into separate sub-programs is called
   (a) Procedural Programming (b) Modular programming
   (c)Event Driven Programming (d) Object oriented Programming
4. The Θ notation in asymptotic evaluation represents
   (a) Base case (b) Average case (c) Worst case (d) NULL case
5. Which operator is also called as Conditional operator?
   (a) Ternary (b) Relational (c) Logical D)assignment
6. Which of the following keyword is used to exit a function block?
   (a) define (b) return (c) finally (d) def
7. The subscript of a string may be:
   (a) Positive (b) Negative (c) Both (a) and (b) (d) Either (a) or (b)
8. If List=[10,20,30,40,50] then List[2]=35 will result
   (a) [35,10,20,30,40,50] (b) [10,20,30,40,50,35]
   (c) [10,20,35,40,50] (d) [10,35,30,40,50]
9. Which of the following class declaration is correct?
   (a) class class_name (b) class class_name<>
   (c) class class_name: (d) class class_name[ ]
10. Which of the following is an RDBMS?
    a) Dbase b) Foxpro c) Microsoft Access d) SQLite
11. Queries can be generated using
    (a) SELECT (b) ORDER BY (c) MODIFY (d) ALTER
12. A CSV file is also known as a ....
    (a) Flat File (b) 3D File (c) String File (d) Random File
13. The expansion of API is
    (a) Application Programming Interpreter (b) Application Programming Interface
    (c) Application Performing Interface (d) Application Programming Interlink
14. Any changes made in the values of the record should be saved by the command
    (a) Save (b) Save As (c) Commit (d) Oblige
15. Identify the package manager for Python packages, or modules.
    (a) Matplotlib (b) PIP (c) plt.show() (d) python package

II. Answer Any 6 for the following questions: **6 x 2 = 12**

16. Differentiate interface and implementation.
17. How Python represents the private and protected Access specifiers?
18. Define Pseudo code.
19. What are the different modes that can be used to test Python Program ?
20. Write note on range () in loop.
21. What is class?
22. Differentiate Unique and Primary Key constraint.
23. What is CSV File?
24. What will be the output of the following code?

```
list = [2**x for x in range(5)]
print(list)
```

III. Answer Any 6 for the following questions: **6 x 3 = 18**

25. Differentiate pure and impure function.
26. Differentiate Concrete data type and abstract datatype.
27. Differentiate ceil() and floor() function?
28. Write a note on different types of DBMS users.
29. What is MinGW? What is its use?
30. What is the difference between the write mode and append mode.
31. What is SQLite?What is it advantage?
32. Write any three uses of data visualization.
33. Write a Python code to check whether a given year is leap year or not.

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

34. (a) Write any five benefits in using modular programming **(or)**
    (b) List the characteristics of an algorithm.
35. (a) Explain input() and print() functions with examples. **(or)**
    (b) Write a detail note on for loop
36. Explain the following built-in functions.
    (i) id() (ii) chr() (iii) round() (iv) type() (v) pow() **(or)**
    What the different ways to insert an element in a list. Explain with suitable example.
37. (a) Explain the different set operations supported by python with suitable example
    (or)
    (b) Explain the different types of data model.
38. (a) Differentiate DBMS and RDBMS **(or)**
    (b) Tabulate the different mode with its meaning.