

**I Choose the correct answer :****15 X 1 = 15**

- The function which causes side effects to the arguments passed are called _____.
a) pure functions b) partial functions c) dynamic functions d) impure functions
- The data type whose representation is unknown are called _____.
a) Built-in datatype b) Abstract datatype
c) Concrete datatype d) Derived datatype
- Which of the following scope is loaded as soon as the library files are imported to the program?
a) Local scope b) Global Scope c) Built-in Scope d) Enclosed Scope
- In dynamic programming, the technique of storing the previously calculated values is called ?
a) Saving value property b) Storing value property
c) Memoization d) Mapping
- Match the following :
a) Interactive mode - 1) //
b) Floor division - 2) pass
c) Single line comment - 3) >>>
d) Null statement - 4) #
a) 3 1 2 4 b) 3 1 4 2 c) 4 1 2 3 d) 4 1 3 2
- Which of the following function returns the unicode character for the given ASCII value ?
a) ord () b) id() c) chr() d) type()
- Defining strings within triple quotes allows creating _____.
a) Single line Strings
b) Multiline Strings c) Double line Strings d) Multiple Strings
- What will be the output of the following snippet ?
set_A = {1,2,3,4,5,6}
set_B = {2,4,6,8,10}
print(set_A - set_B)
a) {2,4,6} b) {1,2,3,4,5,6,8,10} c) {1,3,5} d) {1,3,5,8,10}
- Which of the following is the private class variable ?
a) __num b) ##num c) \$\$num d) _num
- The symbol of project in relational algebra of DBMS is
a) \emptyset b) Π c) \cup d) \cap
- Which of the following clause is used to filter the records ?
a) Where b) Having c) Group by d) Order by
- Which of the following creates an object which maps data to a dictionary ?
a) listreader() b) reader() c) tuplereader() d) DictReader()
- Which of the following is the special variable which by default stores the name of the file ?
a) __name b) __init c) __del d) __def

14. Which of the following is called the master table ?
 a) sqlite_master b) main_master c) master_main d) sqlite_main
15. _____ plot is a type of plot that shows the data as a collection of points.
 a) Line b) Scatter c) Box d) Pie

II Answer any Six questions and Question number 24 is compulsory : 6 X 2 = 12

16. Differentiate interface and implementation?
 17. What is pair? Give an example?
 18. What do you mean by Namespaces?
 19. What are the different modes that can be used to test Python Program?
 20. What will be the output of the given Python program?
 Str="COMPUTER SCIENCE"
 print(str[0:7])
 21. What is the purpose of Destructor?
 22. What is normalization?
 23. Mention the default modes of the file.
 24. What is the advantage of declaring a column as "INTEGE PRIMARY KEY"?

III Answer any Six questions and question number 33 is compulsory. 6X3=18

25. Why strlen is called pure function?
 26. Identify which of the following are constructors and selectors?
 a) N1 := number() b) acceptnum(n1) c) displaynum(n1)
 d) eval(a/b) e) x,y := makeslope(m), makeslope(n) f) display()
 27. What do you understand by Dynamic programming?
 28. List the differences between break and continue statements?
 29. What are the points to be noted while defining a function?
 30. What will be the output of the following code?
 list=[3**x for x in range(5)]
 print(list)
 31. Write a note on different types of DBMS users.
 32. What is MinGW? What is its use?
 33. Write any three uses of data visualization?

IV Answer all the questions.

5X5=25

34. How will you access the multi-item. Explain with example. (OR)
 Explain the types of scopes for variable.
 35. Write a program to display multiplication table for a given number. (OR)
 Explain about string operators in python with suitable example.
 36. What is nested tuple ? Explain with an example. (OR)
 Differentiate DBMS and RDBMS.
 37. Explain briefly about DML and TCL commands. (OR)
 Write the rules to be followed to format the data in a CSV file.
 38. Explain each word of the following command.
 python <filename.py> -<i> <cpp filename without cpp extension> (OR)
 Explain the purpose of the following functions:
 a) plt.xlabel() b) plt.ylabel() c) plt.title()
 d) plt.legend() e) plt.show()