

**CHRIST THE KING BOYS MATRIC HR. SEC. SCHOOL,  
KUMBAKONAM – 612 001.**

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**STD: XII**

**MARKS: 70**

**SUB: COMPUTER SCIENCE**

**TIME: 2.30 MINS**

**HALF – YEARLY MODEL QUESTION PAPER – 4**

**PART – I**

**I. CHOOSE THE CORRECT ANSWER:**

**15\*1=15**

1. The variables in a function definition are called as \_\_\_\_\_  
a) Subroutines                      b) Function                      c) Definition                      d) Parameters
2. Which of the following allow naming the various parts of a multi-item object?  
a) Tuples                      b) Lists                      c) Classes                      d) quadrats
3. Which of the following character is used to give comments in Python Program?  
a) #                      b) &                      c) @                      d) \$
4. Which of the following is not a stable sorting algorithm?  
a) Insertion sort                      b) Selection sort                      c) Bubble sort                      d) Merge sort
5. What is the output of the following snippet?  
i=1  
while True:  
    if i%3 ==0:  
        break  
    print(i,end=")  
i +=1  
a) 12                      b) 123                      c) 1234                      d) 124
6. Pick the correct one to execute the given statement successfully.  
if \_\_\_\_ : print(x, " is a leap year")  
a) x%2=0                      b) x%4= 0                      c) x/4=0                      d) x%4=0
7. Which of the following is the output of the following python code?  
str1="TamilNadu"  
print(s r1[::-1])  
a) Tamilnadu                      b) Tmlau                      c) udanlimaT                      d) udaNlimaT
8. What will be the result of the following Python code?  
S=[x\*\*2 for x in 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]

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- 9 Which of the following is the private class variable?  
a) \_\_num                      b) ##num                      c) \$\$num                      d) &&num
10. Who is called Father of Relational Database from the following?  
a) Chris Date                      b) Hugh Darween                      c) Edgar Frank Codd                      d) Edgar Frank Cadd
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. Importing C++ program in a Python program is called \_\_\_\_\_.  
a) wrapping                      b) Downloading                      c) Interconnecti g                      d) Parsing
14. SQLite falls under \_\_\_\_\_ database system.  
a) Flat file database system                      b) Relational Database system  
c) Hierarchical database system                      d) Obj ct oriented Database system
15. Which key is used to run the module?  
a) F6                      b) F4                      c) F3                      d) F5

**PART – I**

**II. ANSWER ANY 6 QUESTIONS: (Q.No.20 Compulsory)**

**6\*2=12**

16. How python represents the private and protected access specifiers?
17. Define Algorithm Analysis and Pseudo code
- 18 Write a Python program to calculate the sum of numbers 1 to 100?
19. Define Pass Statement with example
20. What is Composition in Functions?
21. What is the use of len ) function in Python?
22. Write the Syntax of Class in Python?
23. What are the commonly used interfaces for importing C++ program into Python?
24. How to display a record using fetchone() function

**PART – III**

**III. ANSWER ANY 6 QUESTIONS (Q.No.26 Compulsory)**

**6\*3=18**

25. Define Mapping and Namespaces
26. List some of the Characteristics of an Algorithm?
27. What are Comments and Indentation in Python?

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28. What are the Compound Operators in Python?
29. What happens when we modify Global Variable inside the function?
30. Define format() Function with Example
31. What is BETWEEN and NOT BETWEEN Keywords?
32. Write the Syntax and explain csv.reader() method?
33. Define Data Visualization and write the General Types of Data Visualization?

**PART – IV**

**IV. ANSWER THE FOLLOWING QUESTIONS:**

**5\*5=25**

34. a) Explain with an example interface and implementation.

**[OR]**

- b) Explain the concept of Dynamic programming with suitable example

35. a) Write a program to check if the year is leap year or not

**[OR]**

- b) Explain the different types of function with an example

36. a) What are the Characteristics of Database Management System?

**[OR]**

- b) Explain the following DML Commands:      a) INSERT INTO      b) DELETE      c) UPDATE

37. a) Tabulate the different mode with its meaning

**[OR]**

- b) Write any 5 features of Python

38. a) Write the differences between Histogram and Bar Graph?

**[OR]**

- b) Write in brief about SQLite and the steps used to use it

**// ALL THE BEST**