

**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 – 2**

**PART – I**

**I. CHOOSE THE CORRECT ANSWER:**

**15\*1=15**

1. The small sections of code that are used to perform a particular task is called \_\_\_\_\_.  
a) Subroutines                      b) Files                      c) Pseudo code                      d) Modules
2. Which of the following refers to the visibility of variables in one part of a program to another part of the same program?  
a) Scope                      b) Memory                      c) Address                      d) Accessibility
3. Which operator is also called as Conditional operator?  
a) Ternary                      b) Relational                      c) Logical                      d) Assignment
4. Two main measures for the efficiency of an algorithm are \_\_\_\_\_.  
a) Processor and memory      b) Complexity and capacity      c) Time and space                      d) Data and space
5. What plays a vital role in Python programming?  
a) Statements                      b) Control                      c) Structure                      d) Indentation
6. While defining a function which of the following symbol is used?  
a) ; (semicolon)                      b) . (dot)                      c) : (colon)                      d) \$ (dollar)
7. Which of the following is used as placeholders or replacement fields which get replaced along with format ( ) function?  
a) { }                      b) <>                      c) ++                      d) ^^
8. Which of the following function is used to count the number of elements in a list?  
a) count()                      b) find()                      c) len()                      d) index()
9. Functions defined inside a class \_\_\_\_\_.  
a) Functions                      b) Module                      c) Methods                      d) section
10. What is the acronym of DBMS?  
a) Database Management Symbol                      b) Database Managing System  
c) Database Management System                      d) DataBasic Management System
11. The clause used to sort data in a database \_\_\_\_\_.  
a) SORT BY                      b) ORDER BY                      c) GROUP BY                      d) SELECT
12. The command used to skip a row in a CSV file is \_\_\_\_\_.  
a) next()                      b) skip()                      c) omit()                      d) bounce()

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13. What does `__name__` contains?  
a) c++ filename                      b) main() name                      c) python filename                      d) os module name
14. Which of the following is a control structure used to traverse and fetch the records of the database?  
(A) Pointer                      b) Key                      c) Cursor                      d) Insertion point
15. Which is a python package used for 2D graphics?  
(A) matplotlib.pyplot                      b) matplotlib.pip                      c) matplotlib.numpy                      d) matplotlib.plt

**PART – II**

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

**6\*2=12**

16. Differentiate Concrete Data type and Abstract Data type?
17. What is meant by Algorithm Strategy and Define Algorithmic Solution
18. Write the Steps to do Dynamic Programming?
19. Write the Syntax with example for If – Else?
20. Write a Python program to illustrate the use of while loop to print all numbers from 10 to 15?
21. Define the following Built – in String Functions a) `title()`                      b) `swapcase()`
22. What are the Advantages of DBMS?
23. What is the Purpose of CSV file?
24. How to create a Database using SQLite?

**PART – III**

**III ANSWER ANY 6 QUESTIONS: (Q.No 31 Compulsory)**

**6\*3=18**

25. Why `strlen` is a pure function?
26. Define Access Control
27. What is meant by Conditional Operator or Ternary Operator with Example?
28. What are the things that need to be noted when defining Functions?
29. Define the following list functions: a) `index()`                      b) `reverse()`                      c) `sort()`
30. How to create sets using List or Tuple?
31. What is the difference between Python and C++?
32. Write a python program to check whether the given year is leap year or not?
33. Define the following charts: a) Line Chart                      b) Bar Chart                      c) Pie Chart

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**PART IV**

**IV. ANSWER THE FOLLOWING QUESTIONS:**

**5\*5=25**

34. a) How will you facilitate data abstraction? Explain it with suitable example

**[OR]**

b) Explain the Characteristics of an Algorithm?

35. a) Describe in detail the procedure Script mode programming.

**[OR]**

b) Write a detail note on if..else..elif statement with suitable example.

36. a) Explain about string operators in python with suitable example.

**[OR]**

b) What is the purpose of range( )? Explain with an example

37. a) Explain the different types of relationship mapping

**[OR]**

b) Explain the following DDL Commands: a) ALTER                      b) TRUNCATE                      c) DROP TABLE

38. a) Write the syntax for getopt() and explain its arguments and return values?

**[OR]**

b) Explain about the Aggregate Functions in SQL?

**/ ALL THE BEST**