

**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 – 5**

**PART – I**

**I. CHOOSE THE CORRECT ANSWER:**

**15\*1=15**

1. Containers for mapping names of variables to objects are called \_\_\_\_\_.  
a) Scope                      b) Mapping                      c) Binding                      d) Namespaces
2. The data type whose representation is unknown are called \_\_\_\_\_.  
a) Built in data type      b) Derived data type      c) Concrete data type (D) Abstract data type
3. The functions which will give exact result when same arguments are passed are called \_\_\_\_\_.  
a) Impure functions      b) Partial Functions      c) Dynamic Functions      d) Pure functions
4. Which of the following shortcut is used to create new Python Program?  
a) Ctrl + C                      b) Ctrl + F                      c) Ctrl + B                      d) Ctrl + N
5. Time complexity of bubble sort in best case is \_\_\_\_\_.  
a)  $\theta(n)$                       b)  $\theta(n \log n)$                       c)  $\theta(n^2)$                       d)  $\theta(n(\log n)^2)$
6. elif can be considered to be abbreviation of \_\_\_\_\_.  
a) nested if                      b) if..else                      c) else if                      d) if..elif
7. A Function which calls itself is called as \_\_\_\_\_.  
a) Built-in                      b) Recursion                      c) Lambda                      d) return
8. What is stride?  
a) Index value of slice operation                      b) first argument of slice operation  
c) Second argument of slice operation                      d) third argument of slice operation
9. Which of the following set operation includes all the elements that are in two sets but not the one that are common to two sets?  
a) Symmetric difference      b) Difference                      c) Intersection                      d) Union
10. A private class variable is prefixed with \_\_\_\_\_.  
a) \_                      b) &&                      c) ##                      d) \*\*
11. What symbol is used for SELECT statement?  
a)  $\sigma$                       b)  $\Pi$                       c) X                      d)  $\Omega$
12. Which of the following mode is used when dealing with non-text files like image or exe files?  
a) Text mode                      b) Binary mode                      c) xls mode                      d) csv mode
13. The module which allows you to interface with the Windows operating system is \_\_\_\_\_.  
a) OS module                      b) sys module                      c) csv module                      d) getopt module



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**PART IV**

**IV. ANSWER THE FOLLOWING QUESTIONS:**

**5\*5=25**

34. a) Write any five benefits in using modular programming.

**[OR]**

b) Explain the Selection sort algorithm with example.

35 a) Write a program to display Fibonacci series 0 1 1 2 3 4 5..... (upto n terms)

**[OR]**

b) Explain the following built-in functions

i) id()

ii) chr()

iii) round()

iv) typ ()

v) pow()

36. a) Explain the different set operations supported by python with suitable example.

**[OR]**

b) Explain about string operators in python with suitable example.

37. a) Explain the different operators in Relational algebra with suitable examples.

**[OR]**

b) Explain the TCL Commands?

38. a) Differentiate Excel file and CSV file.

**[OR]**

b) Write a Python script to create a table called ITEM with following specification.

Add one record to the table.

Name of the database - BC

Name of the table:- Item

Column name and specification:-

Icode	:-	integer and act as primary key
Item Name	:-	Character with length 25
Rate	:	Integer
Record to be added	:-	1008, Monitor,15000

**// ALL THE BEST**