CHRIST THE KING MATRICULATION HR. SEC. SCHOOL, KUMBAKONAM – 612 001.

STD: XI   **MARKS: 50**
SUB: COMPUTER SCIENCE   **TIME: 1.30 MINS**

AUGUST MONTHLY TEST
PART – I

I. CHOOSE THE CORRECT ANSWER: **10*1=10**

1. Omitting details inessential to the task and representing only the essential features of the task is known as
   a) Specification b) Abstraction c) Composition d) Decomposition
2. If i = 5 before the assignment i := i-1 after the assignment, the value of i is _____
   a) 5   b) 4   c) 3   d) 2
3. How many times the loop is iterated?
   i := 0 while i ≠ 5 i := i + 1
   a) 4   b) 5   c) 6   d) 0
4. Who coined C++?
   a) Rick Mascitti b) Rick Bjarne c) Bill Gates d) Dennis Ritchie
5. Which of the following operator is extraction operator of C++?
   a) >>   b) <<   c) <>   d) ^^
6. _____ is a mix of programming-language-like constructs and plain English.
   a) Programming Language b) Flowchart c) Pseudo code d) Algorithm
7. In _____ control flow, a sequence of statements is executed one after another in the same order as they are written.
   a) sequential b) alternative c) iterative d) All of these
8. By default, string literals are automatically added with a special character _____ at the end.
   a) '/0'   b) '\0'   c) '\n'   d) '\a'
9. The _____ is the starting point where all C++ programs begin their execution.
   a) Namespace b) Header File c) main( ) d) Comments
10. To declare more than one variable which are of the same data type using a single statement, it can be declared by separating the variables using a _____.
    a) ,   b) [ ]   c) :   d) ( )

PART – II

II. ANSWER ANY 5 QUESTIONS: (Q.No.11 Compulsory)   **5*2=10**

11. Difference between Algorithm and a Process?
12. Write the parts of the Specification format?
13. What are the Symbols in Flowchart?
14. Why is function an abstraction?
15. What is the difference between endl and '\n'?
16. Define Keywords
17. Write a short note const keyword with an example?

PART – III

III. ANSWER ANY 5 QUESTIONS: (Q.No.21 Compulsory)   **5*3=15**

18. Define Double Dash
19. Difference between Assignment Operator and Equality Operator?
20. What is case analysis?
21. Define a function to double a number in two different ways: (1) n + n, (2) 2 x n
22. What is Dynamic Initialization?
23. What is Identifier? What are the Rules for Naming Identifier?
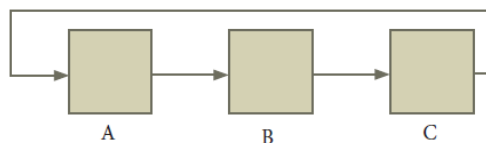24. What is the use of Header File?

PART – IV

IV. ANSWER THE FOLLOWING QUESTIONS: **3*5=15**

25. a) Exchange the contents: Given two glasses marked A and B. Glass A is full of apple drink and glass B is full of grape drink. For exchanging the contents of glasses A and B, represent the state by suitable variables, and write the specification of the algorithm.

[OR]

b) Circulate the contents: Write the specification and construct an algorithm to circulate the contents of the variables A, B and C as shown below: The arrows indicate that B gets the value of A, C gets the value of B and A gets the value of C.

26. a) Write about the Binary Operators used in C++?

[OR]

b) What are the different types of Errors in Dev C++?

27. a) What are the Algorithm Design Techniques? Explain it?

[OR]

b) Explain the Building Blocks of Algorithm?

// ALL THE BEST