NETTUR TECHNICAL TRAINING FOUNDATION

DIPLOMA IN ELECTRONICS ENGINEERING & EMBEDDED SYSTEM – CP04

III SEMESTER REGULAR & SUPPLEMENTARY EXAMINATION-JAN 2023

Subject: Computer Programming-C, C++ **Total Time: 2 Hr.**
Subject Code: CP04303T **Total Marks: 50 Marks**

PART B

1.0 ANSWER ANY EIGHT OF THE FOLLOWING **2*8=16**

1.1 What are the basic elements, a programming language must have?
1.2 List the six types of 'C' tokens
1.3 List the basic datatypes in C
1.4 What do the following special operators do in C?
a. Sizeof(); b. & operator c. * operator
1.5 What are the decision making statements in C?
1.6 Explain the concept of String.
1.7 Define Preprocessing
1.8 What is structure? How it differs from array?
1.9 What is Operator overloading?
1.10 List the access specifiers in C++

2.0 ANSWER ANY SIX OF THE FOLLOWING **3*6=18**

2.1 Write down the rules for naming an identifier. Write any 4 valid identifiers.
2.2 Explain, how interpreters differ from compilers?
2.3 List the various Storage Classes in C. Explain any one of them in brief.
2.4 Explain the following OOPs concepts with example
1) Polymorphism 2) Dynamic Binding 3) Message Passing
2.5 Why do we call scanf() and printf() statements as formatted input and output functions? Explain with example.
2.6 Explain if - else statement with the help of an example.
2.7 Differentiate Global & Local Variables.
2.8 Write a C Program to check whether the given string is palindrome or not

3.0 ANSWER ANY FOUR OF THE FOLLOWING **4*4=16**

3.1 Explain switch statement with the help of an example.
3.2 Explain the structure of 'C' program with the help of an example.
3.3 Explain the difference between ++x and x++. Given k = 10, write the values stored in z.
a. z = k++; b. z = ++k;
c. z = k--; d. z = --k;
3.4 Differentiate while & do-while statements in C
3.5 Write an executable c program using the 'for' loop to calculate sum of all numbers from 1 to 100.
3.6 How will you declare and initialize a single dimensional array? Explain