

NETTUR TECHNICAL TRAINING FOUNDATION

DIPLOMA IN ELECTRICAL & ELECTRONICS-CP23

III SEMESTER REGULAR & SUPPLEMENTARY EXAMINATION-JAN 2023

Subject: Computer Programming-C,C++

Subject Code: CP23305T

Total Time: 2 Hr.

Total Marks: 50 Marks

PART B

11.0 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

