

# **Amar Computer Point Technical Institute**

## **BCA (PART I) EXAMINATION, 2023-24**

### **(First Semester)**

### **(BCA-101: C Programming)**

1. a) Define operator and its type in C .Explain with suitable example.  
b) What is Datatype? Explain it with program.  
c) What do you mean by C Constant? Explain the different types of constants used in C.  
d) Define the term Algorithm and differentiate it with flowchart.

### **Section – A**

2. What do you mean by looping statements in C ? Explain the following in detail with example.  
a)for loop  
b)while loop  
c)do while loop
3. a) What do you understand by C preprocessor? Define the different methods to create preprocessor with suitable example.
4. a) Write a C program to check the given number is palindrome or not.  
b) Explain the switch statement and difference it with go to statement with proper example.

### **Section – B**

5. Write a short note on the following terms with example.  
a) Pass by value and pass by reference concept.  
b) Recursion.  
c) File opening modes.
6. Define the structure and union and also explain the difference between them with suitable example.
7. a) Write a C program to find the transpose of a given matrix.  
b) Explain the 1-D and 2-D array in C. Give its important features and memory allocation of array in C.