

H-100-21

Roll No.

ANNUAL EXAMINATION, 2021

B.C.A. I

B.C.A. 103

Paper III

(Programming in 'C' Language)

Time : 3 Hours]

[Maximum Marks : 80

Note : *Attempt any two parts from each unit. All questions carry equal marks.*

Unit-I

1. (a) Explain basic structure of a C program with example.
- (b) What is type casting ? Explain different types of type casting.
- (c) Write short notes on the following :
 - (i) Data Type,
 - (ii) Constant,
 - (iii) Variable.

Unit-II

- (a) What is branching statement ? Explain various types of if-else statement with syntax and example.
- (b) Write difference between call by value and call by reference.
- (c) Write short notes on the following :
 - (i) Unconditional jump,
 - (ii) Exit function,
 - (iii) User defined function.

Unit-III

3. (a) What is Array ? Explain declaration, initialization and accessing elements of one and two dimension of numeric Array.
- (b) Write difference between structure and union.
- (c) Write a program to concatenate one string to another string without using library function.

Unit-IV

4. (a) Explain Pointer Arithmetic with suitable example.
- (b) Explain Dynamic memory allocation function with suitable example program.

[3]

- (c) Explain Declaration, Initialization of pointer to function with syntax and example.

Unit-V

5. (a) What is file ? Explain file handling in C language.
- (b) What is Macro ? Explain parameterized and non-parameterized macro.
- (c) Explain about fprintf() and fscanf() function with suitable example.

★★★★★ c ★★★★★