

END TERM EXAMINATION

FIRST SEMESTER [BCA] FEBRUARY-MARCH 2023

Paper Code: BCA103 Subject: Programming Using in 'C' Language

Time: 3 Hours Maximum Marks: 75

Note: Attempt five questions in all including Q.No.1 which is compulsory.
Select one question from each unit.

- Q1 Answer the following: [5x5=25]
- a) What is the use of #define preprocessor?
 - b) Explain the usage of break, labelled break, continue & labelled continue statements?
 - c) Write example code to declare two-dimensional array.
 - d) Differentiate between Local and Global variable in C.
 - e) What is the difference between ++a and a++?

UNIT-I

- Q2 Explain various types of operators used in C with example? [12.5]
- Q3
- a) What is recursion? Explain with the help of a program in C. [6]
 - b) Explain various looping statements in C with the help of suitable example. [6.5]

UNIT-II

- Q4
- a) Differentiate between scanf() and gets() function with the help of an example? [6.5]
 - b) Explain the storage classes in C with example programs? [6]
- Q5
- a) What are the various dynamic memory allocation functions in C? Explain with an example. [6.5]
 - b) What is a pointer? Explain array of pointers to function with suitable example. [6]

UNIT-III

- Q6
- a) Differentiate between formatted and unformatted input and output functions? [3.5]
 - b) Write short notes on: [3x3=9]
 - i) structure and Union
 - ii) passing structure to functions
 - iii) file access modes
- Q7
- a) What is the use of atoi() function? Explain with an example. [6]
 - b) Compare arrays and structures. Justify your comparison with an example. [6.5]

P.T.O.

[-2-]

UNIT-IV

- Q8 a) Explain the syntax & usage of inbuilt string functions with suitable example? **[7.5]**
b) Write a program to identify the largest and smallest word in a string. **[5]**
- Q9 a) Explain the following header files: **[2.5x3=7.5]**
i) Math.h ii) stdlib.h iii) time.h
b) Write a program in C to check whether the input word is a palindrome or not? **[5]**
