

Exam. Code : 107202

Subject Code : 7081

**Bachelor of Computer Application (BCA) 2nd Semester
(Old Syllabus of 2017)**

INTRODUCTION TO PROGRAMMING (C)-II

Paper—I

Time Allowed—3 Hours]

[Maximum Marks—75

Note :— Attempt any **five** questions. All questions carry equal marks.

1. (a) Explain the concept of string manipulation with an example.
(b) What is meant by a function call ? From what parts of a program can a function be called ?
2. (a) What is the purpose of a static variable in a single-file program ? What is its scope ?
(b) What is the purpose of an automatic variable ? Does an automatic variable retain its value once control is transferred out of its defining function ?
3. (a) What is the scope of a static external variable ?
(b) Under what circumstances can an external variable be defined to be static ? What advantage might there be in doing this ?

4. (a) How is the size of the dynamic memory block specified ? What kind of information is returned by the library function ?
(b) Under what conditions can the elements of a multidimensional array be initialized if the array is defined in terms of an array of pointers ?
5. (a) In what way can the assignment of an initial value be included in the declaration of a pointer variable ?
(b) What is the relationship between an array name and a pointer ? How is an array name interpreted when it appears as an argument to a function ?
6. (a) What is a structure member ? What is the relationship between a structure member and a structure ?
(b) How is a structure-type pointer variable declared ? To what does this type of variable point ?
7. (a) What is a Union ? How does a union differ from a structure ?
(b) What is meant by opening a data file ? How is this accomplished ?
8. (a) What is the purpose of the fclose function ? Is it necessary that a call to this function appear within a program that utilizes a data file ?
(b) Describe two different approaches to updating a data file. Which approach is better and why ?