Exam. Code : 107202

Subject Code: 1943

## B.C.A. Semester-II INTRODUCTION TO PROGRAMMING (C)-II Paper—I

Time Allowed—3 Hours [Maximum Marks—75

Note: — Attempt any FIVE questions. All questions carry equal marks. The students can use only nonprogrammable and non-storage type calculator.

What do you mean by string processing? List various string manipulation inbuilt functions available in C language. Discuss any three with suitable examples.

- Write a program to read a line of text and print the number of characters and words in the line. 15
- 3. Elaborate with suitable examples the following storage classes - Automatic, External and Static. 15
- (a) What are user defined data types? What data 4. structure is the most commonly used? 7.5
  - (b) What are self referential structures? Explain giving suitable examples. 7.5

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- 5. (a) What is a structure? How a structure is defined in C? What are the operations that can be performed on a structure?
  - (b) What is the difference between structure and union?What are self referential structures? How pointers to structures are used? Explain giving a suitable example.7.5
- 6. What do you mean by pointer data type? What are its advantages and disadvantages? How pointers are declared in C? Discuss the process of initialization of pointers and accessing the values using pointers in C.
- 7. What is the difference between text and binary files?
  What are the I/O functions available in C for binary
  files? Explain with examples.
- 8. Write a program in C to read a text file and count the occurrences of any two vowels in succession. 15

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