

B.Sc. (Information Technology) Semester—II

Paper-IV : C PROGRAMMING Part-II

Time Allowed—3 Hours]

[Maximum Marks—75

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

1. What do you mean by String ? How strings are read and printed in C language ? What are various string manipulation inbuilt functions available in C language ? Discuss any three in detail. <http://www.gnduonline.com> 15
2. Write a program to concatenate two strings without using any library function. 15
3. 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. 15
4. Elaborate various storage classes supported by C language. 15

5. What do you mean by Structures ? How structures are declared and initialized ? Explain with example. How structures are different from unions ? 15
6. Write short notes on the following :
 - (a) User defined data types 5
 - (b) Passing structures to functions 5
 - (c) Self referential structure. 5
7. What are files ? What are various types of files ? How a file is declared and defined in C ? Discuss the functions to open, close, read and write data files in C. 15
8. Given a text file containing some text. Write a program that reads this file and replaces each occurrence of character 'x' with uppercase 'X'. 15