

B.Sc. Information Technology Semester—II

C PROGRAMMING PART-II

Paper-IV

Time Allowed—3 Hours] [Maximum Marks—75

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

1. What are various string manipulation functions ? Explain with suitable examples. 15
2. Write a program to count the number of vowels in a given string. 15
3. What is a pointer ? What are the uses of pointers in C ? How a pointer variable is different from an ordinary variable ? How pointers are useful in declaring a two dimensional array ? Explain with the help of suitable example. 15
4. What are the various storage classes in C ? Discuss each in detail with suitable examples. 15
5. What are Structures ? What is the use of structures in C ? Explain with an example how a structure is declared in a C program. How a structure is different from Union ? 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 is the difference between text and binary files ? What are the I/O functions available in C for binary files ? 15
8. Write a program in C to read a text file and copy the contents to another file. 15

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