Exam. Code   :   105702
Subject Code   :   1529

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

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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