# B.Sc.4518 - Elective-I : Electronics Paper-II : C-programming-II

P. Pages : 1  |  **GUG/S/17/5635**

Time : Three Hours  ‖‖‖‖‖‖‖‖ \*1779\*  |  Max. Marks : 50

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Notes :  1.  All questions are compulsory and carry equal marks.
2.  Use either ANSI 'c' or Turbo 'c' for program writing.

**1.** a) Define a function. Explain the necessity of user defined functions in a 'C' program. Write a program in 'C' which will read two matrices and find their sum? **10**

**OR**

b) What is recursion? Explain write a program using recursion to find factorial of a number that is input through keyboard? **10**

**2.** **Either**

a) Explain the concept of pointer and state the rules of pointer arithmetic.
Explain an union with suitable example. How does it differs from structure? **5+5**

**OR**

b) What is structure? Explain the structure syntax and initialization with an example? **10**

**3.** a) Explain the various operating modes of file handling in C.
Write a program in 'C' to merge the two files? **5+5**

**OR**

b) Explain in brief fopen ( ) function and explain different file opening modes? **10**

**4.** **Either**

a) Explain the concept of object oriented programming.
State and explain any two application of oop? **10**

**OR**

b) Differentiate between C and C++ Explain Identifiers constants and variables in C++? **10**

**5.** a) Differentiate between local and global variable? **2½**

b) Explain nested structure with an example? **2½**

c) What are the common uses of rewind and ftell function? **2½**

d) Explain Basic data types operators in C++? **2½**

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