

B.Sc. III (with Credits)-Regular-Semester 2012 Sem VI  
**B.Sc.4518-Electronics-II : Elective-I : C-programming-II**  
**Paper-II**

P. Pages : 1

Time : Three Hours



**GUG/S/16/5635**

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.** Either
- a) What is array? Discuss syntax, declaration and initialization of one and two dimensional array in 'C' language. **10**  
Write a program in 'C' which will read two matrices and find their sum.
- 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 an union with suitable example? How does it differ from structure? For what kind of applications are union useful?  
How is union member accessed? **10**
- OR**
- b) Define a structure. Explain the structure initialization with an example. **10**
- 3.** Either
- a) Explain the get (c); putc( ), functions. Write a program to read data from the keyboard, write it to a file called INPUT, again read the same data from the INPUT file, and display it on the screen. **10**
- OR**
- b) Describe 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 applications of OOP. **10**
- OR**
- b) Describe 'C' in and 'C' out operators in C++.  
Write a program in C++ to find area of rectangle. **10**
- 5.** a) Differentiate between local and global variable. **2½**  
b) What is a pointer? Explain the need for pointer in 'C'? **2½**  
c) What is command line argument? Explain. **2½**  
d) Explain Basic data types operators in C++? **2½**

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