



GUG/S/15/5635

B.Sc. (with Credits)-Regular-Semester 2012 Sem VI

B.Sc. 4518 Electronics Paper - II
(Elective - I) C - programming - II

P. Pages : 3

Time : Three Hours

Max. Marks : 50

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

1. Either :

- a) How are two dimensional arrays declared and initialized? Give examples. **5+5**
Write a program in 'C' which will read two matrices and find their sum.

OR

- b) Define a function. Explain the necessity of user defined function in a 'C' program. **5+5**
Explain the function with argument and return values. Give suitable example.

2. Either :

- a) Explain the concept of pointer and state the rules of pointer arithmetic. **5**

What is the output of following program?

```
main( )  
{  
    int a = 10, *b, **c;  
    b = ka  
    c = kb  
    printf ("In %d %d %d", a, *b, **c);  
}
```

Justify your answer. **5**

OR

- b) What is an union? **5**
How does it differ from a structure.

For what kind of applications are union useful? **5**

How is union member accessed.

3. Either :

- a) What is a data file? What are the functions used for opening and closing a file? Give their syntax. **5**

Write a program in 'C' to enter ten integer value in a file "sample.dat" and display the contents of file on the screen. **5**

OR

b) Explain get(c); putC (), fseek () and fscanf functions in 'C'. **6**

Write a program that will generate a data file containing the list of customer and their corresponding telephone numbers. **4**

4. Either :

a) Explain the concept of object oriented programming. **7**

State and explain any two applications of OOP. **3**

OR

b) Describe 'C in' and 'C out' operators in C++. **6**

Write program in C++ to find area of rectangle. **4**

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

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

c) What is command line argument? Explain. **2½**

d) Differentiate between identifiers and constant in C++. **2½**
