

B.Sc. (I.T.) I (with Credits)-Regular-Semester 2012 Sem II
2BIT3 - Structured Programming with C Paper- III

P. Pages : 2

Time : Three Hours



GUG/W/16/5550

Max. Marks : 80

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- Notes : 1. All questions are compulsory and carry equal marks.
2. Draw neat and labelled diagram wherever necessary.

Either

1. a) Discuss in detail the input and output statements in C. 8
b) Explain the implicit & explicit conversion with suitable example. 8

OR

- c) Define ternary operator. Illustrate ternary operator with the help of a program. 8
d) What is data type? Explain various data types in C. 8

Either

2. a) Define array. Explain memory representation of one dimensional array. 8
b) Write a program in C to find GCD of two positive numbers by successive division method. 8

OR

- c) Write a short note on break and continue. Write a program in C to illustrate the use of break. 8
d) Write a program to search an element K in a array using linear search. 8

Either

3. a) Explain the concept of nested structure in C with example. 8
b) Explain how union is more useful than structure in C. 8

OR

- c) Explain the following. 8
i) Strlen
ii) Strcat
iii) Strcmp
iv) Strcpy
d) Write a program to enter the marks of 5 subjects of 10 students and also find the total marks of each student using structure with array. 8

Either

4. a) Explain the concept of pointer with functions. **8**
- b) Write a program in C using command line argument to copy the content of one file to another. **8**

OR

- c) Explain various input and output operations performed on file. **8**
- d) Write a short note on call by value and call by reference. **8**
5. Solve all the questions.
- a) Write a short note on symbolic constant. **4**
- b) What is sorting? Explain any one sorting method in C. **4**
- c) Write a short note on library functions. **4**
- d) Explain the concept of pointer to pointer. **4**
