



GUG/W/15/5572

B.Sc. I (With Credits)-Regular-Semester 2012 Sem II

2SCS-T2 Computer Science - II :
Paper- II
(Structured Programming with 'C')

P. Pages : 4

Time : Three Hours

Max. Marks : 50

- Notes :
1. All questions are compulsory and carry equal marks.
 2. Draw neat and labeled diagram wherever necessary.
 3. Avoid vague answers and write answers relevant and specific to questions only.

1. Either

- a) Write a short note on operator supported by 'C'. **5**

- b) Write an output of following code after execution. **5**

1	<pre>int a = 1, c; c = ++a + a++; printf("%d %d", a, c)</pre>
2	<pre>int a = 1,c; c = ++a + ++a + a --; printf("%d %d", a, c)</pre>
3	<pre>int a =1, b = 1, c; c = a > ++b; printf("%d %d %d", a,b,c);</pre>
4	<pre>int a = 1, b = 3, c; c = ++a % b++; printf("%d %d %d", a,b,c);</pre>
5	<pre>int a = 1, b = 1, c; c = ++b = a++; printf("%d %d %d", a,b,c);</pre>

OR

- c) Write a short on type casting with suitable example. **5**
- d) Elaborate the concept of conceptual development of solution. **5**

2. Either

- a) Write a program to evaluate following series **5**
 $s = x + x/2 + x/3 + \dots + x/n$.
- b) Explain the use of break and continue statement. **5**

OR

- c) Write a program to find sum of digit of a given number. **5**
- d) What is ternary operator? Write its importance in programming constructs. **5**

3. Either

- a) Write a program to sort the list of marks scored by the N students in Paper 'C'. **5**
- b) Explain the usage of structure with suitable example. **5**

OR

- c) Write a program to find sum of two matrices. **5**
- b) Explain the usage of following string library functions with suitable example. **5**
i) Strcpy ii) Strcmp

4. Either

- a) What is pointer? How it is declared and initialized? **5**
- b) Write function fact () using recursion method. Also show how you will call this function from main (). **5**

OR

- c) Write a program to swap the contents of two variable using concept call by reference. **5**
- d) Explain any two arithmetic functions with its importance with suitable example. **5**

5. Solve all the questions.

- a) Write the importance of equality $2\frac{1}{2}$ operator. How it is differ from Assignment operator?
- b) Write a short note on static storage class. $2\frac{1}{2}$
- c) Elaborate the usage of sizeof (). **$2\frac{1}{2}$**
- d) List different types of file modes supported by 'C'. **$2\frac{1}{2}$**
