



GUG/W/15/3335

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

B.Sc.23142 Computer Science-II
Paper- II (Object Oriented
Programming With C++)

P. Pages : 3

Time : Three Hours

Max. Marks : 50

Notes : 1. All questions are compulsory and carry equal marks.

1. a) What is inline function? Write down differences between normal function and inline function. **5**

b) What is function overloading? Explain with suitable example. **5**

OR

c) Demonstrate call by value and call by reference with an example. **5**

d) Explain the concept of enumeration and manipulators with an example. **5**

2. a) What is access specifier? Explain with suitable example. **5**

b) Explain the concept of Array of objects with suitable example. **5**

OR

c) How object oriented programming is different from procedural programming? **5**

d) Explain following with suitable example. **5**
i) Class
ii) object

3. a) Differentiate between constructors and destructors with an example. **5**

b) What is mean by overloading operator? Write down the rules for operator overloading. **5**

OR

c) Write a C++ program that overloads the + operator and relational operators (suitable) to perform the following operations. **5**

i) Concatenation of two strings.

d) Distinguish between single inheritance and multiple inheritance. **5**

4. a) Explain virtual function with suitable example. **5**
- b) What is 'this' pointer? Also explain 'new' and 'delete' operators. **5**

OR

- c) What are different types of errors which may occur while processing files? **5**
- d) What are different file modes option available in C++? Explain. **5**
5. a) What is function prototyping? Why it is necessary? **2½**
- b) Explain arrays of objects. **2½**
- c) What is dynamic constructors? Explain. **2½**
- d) What is friend function? Explain. **2½**
