DHARMSINH DESAI UNIVERSITY, NADIAD
FACULTY OF TECHNOLOGY
B.TECH. SEMESTER III [IT]
SUBJECT: (IT-302) OBJECT ORIENTED PROGRAMMING

Examination	**: Second Sessional**	**Seat No.**	**: _____**
Date	**: 12/09/2012**	**Day**	**: Wednesday**
Time	**: 9:00 to 10:15**	**Max. Marks**	**: 36**

INSTRUCTIONS:
1. Figures to the right indicate maximum marks for that question.
2. The symbols used carry their usual meanings.
3. Assume suitable data, if required & mention them clearly.
4. Draw neat sketches wherever necessary.

Q.1 Answer the Following : **[12]**

(A) State True or False with proper justification: **[1]**

(a) The overloaded operator must have the operand of type user defined type only.

(b) A base class is never used to create objects. **[1]**

(B) Find out the errors, if any, in the following programs and show the output:

(a) (b) **[4]**

(C) What are the limitations for overloading the increment or decrement operators? How we can solve that? **[2]**

(D) Describe the different data access specifiers with proper example. Give the difference between all. **[4]**

Q.2 Answer the following. (Any three) **[12]**

(A) Overload the arithmetic **'+'** operator to evaluate **d2=d1+15.11** where d1 and d2 are the objects of Distance class. Write proper class definition for that. **[4]**

(B) Find out whether the string is palindrome or not using pointers and function. Pass the string as an argument to a function. **[4]**

(C) What is a Containership? Write a suitable program for that. **[4]**

(D) Overload the **'+='** operator which will allow the statement like **s1+=s2** where s1 and s2 are the objects of **String** class. This class will allow to add string s2 at the end of string s1. **[4]**

Q.3 Answer the following: **[12]**

(A) **[2]**

(B) Explain the difference between function overloading and overriding with example. **[4]**

(C) Convert the object of Fahrenheit class to the object of Celsius class and vice-versa. (Formula : °C= (°F - 32) x 5/9)) **[6]**

OR

Q.3 Answer the following: **[12]**

(A) **[2]**

(B) What is the difference between pointer constant and pointer variable? Can we perform any arithmetical operation on that? Explain it with example. **[4]**

(C) Describe the ambiguity in multiple inheritance with suitable example. **[6]**