

**St.Joseph's College of Engineering, Chennai-119**  
**St.Joseph's Institute of Technology, Chennai - 119**  
**Department Of IT/CSE**  
**CS6301- Programming and Data structures - II**  
**ASSIGNMENT II**  
**PART-A**

1. Write some special characteristics of constructor.
2. Define parameterized constructor.
3. What is a copy constructor?
4. What is destructor?
5. Write at least four rules for Operator overloading.
6. What are the operators that cannot be overloaded?
7. Define run time polymorphism
8. Explain basic to class type conversion with an example.

**PART-B**

1. Explain the different types of constructors with suitable examples.(16)
2. Write brief notes on Friend function and show how Modifying a Class's private Data with a Friend Function.(16)
3. (i)List the special characteristics of friend function. (6)  
(ii) What is virtual base class? When do we make a class virtual? (10)
4. (i).What is virtual function? When do we make a virtual function "pure"? (8)  
(ii). Explain the concept of polymorphism with suitable example.(8)