

**IV B.Tech II Semester Supplementary Examinations, April/May 2005**  
**OBJECT ORIENTED PROGRAMMING AND JAVA**  
**(Electrical & Electronic Engineering)**

**Time: 3 hours****Max Marks: 70**

**Answer any FIVE Questions**  
**All Questions carry equal marks**

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1. (a) What is the difference between a machine language program and a high-level language program ? Discuss why C++ is considered as high level language ?  
(b) What is a source program ? What is an object program ? Why object code should be linked with the routines ? Offer your remarks.
2. (a) Discuss the various control statements in C++ by writing suitable examples.  
(b) In what aspect, public data members differ from private and protected data members in C++? Explain the concept with a suitable example.
3. (a) What are the advantages of combining functions and data into a single object?  
(b) Explain why using a true C++ class provides more capabilities than the use of the struct type?  
(c) List out the differences between an inline function and a normal function?  
(d) Can you implement multiple destructor functions for a single class? Justify your answer?
4. (a) What is operator overloading? Why is it necessary to overload an operator?  
(b) Discuss the different ways by which we can access public member function of an object?
5. (a) What is an Exception? How is an Exception handled in C++?  
(b) What are advantages of using Exception handling mechanism in a program?
6. (a) Java program is machine independent and architecture neutral. Justify the same with the help of block diagram.  
(b) What is the difference between server-side computing and Clientside computing?
7. (a) Write a Java program to implement nested packages.  
(b) Write about Java AWT package.
8. (a) What is the access rights of methods implementing an interface ?  
(b) Can an interface inherit another interface? If yes ,explain how with an example ?  
(c) Write a Java program to implement multiple inheritance using interface.

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