2005 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

IV B.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS

OBJECT ORIENTED PROGRAMING & JAVA

(ELECTRICAL&ELECTRONICS ENGINEERING)

NOVEMBER 2005   TIME: 3 HOURS

MAX MARKS: 80

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   . [8+8]

2. (a) Write a C++ program to find whether a given number is palindrome or not.
(b) Write a loop that will calculate the sum of every third integer, beginning with i = 2, for all values of i that are less than 100. Write the loop in three different ways.   [6+10]

3. (a) What are Inline functions? Explain its usage with an example?
(b) How is a member function of a class defined? What are the merits and demerits of using friend functions?   [6+10]

4. (a) How is a direct base class different from the indirect base class declaration in C++?
(b) Explain how a data member and member functions of a base class can be accessed by the derived class member functions   . [8+8]

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?
                                                                        [10+6]

6. (a) Java is referred as a strongly typed language. Justify.
(b) Write an application that inputs an integer in binary and convert it to its decimal equivalent.
(c) Write an application that reads in a five-digit number and determines whether

or not it is palindrome. If the number is not five digits, display an error
message dialog indicating the problem to the user. When the user dismisses
the error dialog, allow the user to enter a new value   . [4+8+4]

7. (a) What are command line arguments? How are they useful?
(b) Justify the statement "Java is freeform language" .
(c) What is World Wide Web? What is the contribution of Java to the world
wide web?   [5+5+6]

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 exam-
ple ?
(c) Write a Java program to implement multiple inheritance using interface.