2006-PUNJAB TECHNICAL UNIVERSITY
B.TECH III SEMESTER DEGREE EXAMINATION
APPLICATION PROGRAMMING
(COMPUTER SCIENCE ENGINEERING)

TIME-3HOUR
MARKS-60

NOTE: SECTION A IS COMPULSORY. ATTEMPT ANY FOUR QUESTIONS FROM SECTION B AND TWO FROM SECTION C

SECTION A MARKS 2 EACH

1 (a) What is structured programming?

(b) How will you distinguish between unions and enumerators?

(c) What are the rules in C for naming an identifier?

(d) What is reference varible?

(e) How does an inline function differs from a preprocessor macro?

(f) What is the use of scope resolution operator :: in C++ ?

(g) What is dynamic memory allocation?

(h) What is operator overloading?

(i) What are characteristics of a destructor?

(j) What do you understand by term carets?

SECTION B MARKS 5 EACH

2. What are arrays? Write a program in C to arrange n numbers in assending order.

3. Write a function using refernce varible as arguments to swap the values of a pair of integers.

4. What is a constructor function? What are the merits and demerits of using a constructor function?

5. What are multiple threads? Explain with the help of suitable code fragments.

6. What are storage classes? How are they used?

SECTION C MARKS 10 EACH

7. What are command line arguments? Write a program in C to copy the contents of one file into another file using command line arguments.

8. What do you mean by stack? Write an object oriented program in C++ to perform addition and deletion of an element from stack.

9. What are key features of MFC library? Write a sample application program using MFC library.