

Code No.: 6006

## FACULTY OF ENGINEERING

## B.E. I Year (Common to all Branches) (Main) Examination, June 2010 PROGRAMMING IN CAND C++

Time: 3 Hours]

75 the average male voters age and average

Note: Answer all questions from Part A.

Answer any five questions from Part B.

PART - A

- 1. Draw the block diagram of a computer.
- 2. Explain about memory concepts.
- 3. Show how binary searching will proceed if an array A contains the values [7, 20, 80, 92, 123, 971] and the value to be searched is 7?
- 4. What are the advantage of inline function?
- 5. Why do you use # define?
- 6. Write a program to use different formats of typecasting and display the converted values.

Write a program to overload unary operator using friend function

- 7. Discuss briefly about function overloading.
- 8. List the properties of friend function.
- 9. Explain access specifiers with their scope.
- 10. Explain multipath inheritance.



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## PART - B

- 1. a) Write a flow chart to print numbers from 160 to 1, i.e., in reverse order.
  - b) Write a program that reads the gender (male or female) and age of 100 voters and prints the average male voters age and average female voter's age.
- 2. a) Write a recursive function to compute an where a is real and n is a positive integer. Compare it with an interative solution.

Recursive definition

$$a^n = a * a^{n-1}$$
 if  $n > 0$ 

if 
$$n > 0$$

$$a^n = 1$$

if 
$$n = 0$$

- b) Write a program to find out the largest and the smallest elements in a 1 dimensional array.
- 3. Write a program to write text in the file. Read the text from the file from end of file. Display the contents of file in reverse order?
- 4. Write a program to create a text file. Add and modify records in the text file. The record should contain name, age and height of a boy/girl.
- 5. Write a program to overload + operator for performing addition of two template based class objects.
- 6. Write a program to overload unary operator using friend function.
- 7. Write a program to use exception handling with constructor and destructor.