C		
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## COMPUTER PORGRAMMING USING'C'

3rd Exam/Comp/6244/May'08

Duration: 3 Hrs.

## Section A

M.Marks: 75

Q1. Fill in the blanks:

In 'C' integer division results in truncation.

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- In a 'C' program, constant is defined before main.
- In a for loop, if the condition is missing, then it is assumed to be present and taken to be true.
- If a=9, b=5 and c=3, then the expression (a-a/b\*b%c)>a%b%c evaluates to false.
- If a 'switch' feature is used, then default case, if used, can be placed anywhere.
- The following statement is syntactically correct for (; ;);
- Pointer is a dynamic array.
- The statement printf ("%d", ++S); prints 6.
- Individual members can be initialized within a structure type declaration.
- Void can be used in an expression.

## Section B

Attempt any five questions. Note: Q2 i.

5x6

What is the output of the following program Main() int a =4; change (a); printf ("%d", a); change (a) int a;

{ printf ("%d", ++a); ?

- Draw a flow chart for finding the biggest number from among a given list of numbers.
- What is available? How are the variables named and declared in 'C' language?
- Explain any two string handling functions in 'C'.
- What is a structure? How is it different from an array? How are they defined and initialized? Explain with example.
- State advantages and disadvantages of pointers.
- vii. Explain how a file is opened and closed.

## Section C

Q3. Write a program to find the factorial of a given integer and use it to find

$$nC_r = \frac{n!}{r!(n-r)!}$$

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Describe the various I/O statements and assignments statements in 'C' languages. Also discuss the various data types used.

Q4, Write the program for the following

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- a. To list all the numbers which are divisible by 2 in an array of 'n' integers.
- b. To search an element in an array of 'n' elements
- To find the sum of odd and even numbers in a given list of values.
- OR Write short note on
  - a. Call by value and call by reference
  - b. Steps in development of a program Break and switch statements

