CHRIST UNIVERSITY, BANGALORE-560029

End Semester Examination - 2012

I Computer Science, Mathematics, Electronics

Code : CSC131 **Max. Marks : 100**

Sub : COMPUTER FUNDAMENTALS & C PROGRAMMING **Duration : 3Hrs**

SECTION A

Answer ALL Questions **10 X 2 = 20**

1 Discuss about hexadecimal number system.
2 State Commutative and Associative laws.
3 Define registers.
4 What is a document?
5 Write any two ways to create a new presentation in power point.
6 Which characters comprise the C character set?
7 What is the purpose of a type declaration statement?
8 Explain the different logical operators.
9 Name the different category of functions.
10 What is a tag?

SECTION B

Answer Any EIGHT Questions **8 X 6 = 48**

11 How are computers classified according to their function?
12 Mention the rules for

a) conversion of Decimal to Binary number

b) conversion of Binary to Decimal number

c) conversion of Hexadecimal to Binary number

13 Explain the memory hierarchy.
14 Explain primary memory in detail.
15 Compare relative and absolute cell addressing in excel.
16 Write an algorithm to find the sum of digits of a number.
17 Explain switch statement with an example.
18 Explain in detail any two decision making statements available in C.
19 Write a note on functions with arguments and a return values.
20 Write a note on union.

SECTION C

Answer the following **2 X 16 = 32**

21 a Explain the uses of computer in business applications. **(8)**

b Simplify the following Boolean expression using Karnaugh map method: **(8)**

A'B'C + ABC' + A'BC

[OR]

22 a State and prove any four rules of Boolean algebra. **(8)**

b Explain Full Adder Circuit with appropriate diagrams and truth table. **(8)**

23 a Write an algorithm to find the sum of any n numbers. **(8)**

b Write a program to compute the volume of a cube using macros. **(8)**

[OR]

24 a Write a note on linear search. **(8)**

b Write a program to find the factorial of a number. **(8)**