**Reg. No. \_\_\_\_\_\_\_\_**

**Karunya University**

**(Karunya Institute of Technology and Sciences)**

(Declared as Deemed to be University under Sec.3 of the UGC Act, 1956)

**Supplementary Examination - June 2011**

**Subject Title: PROGRAMMING IN C Time: 3 hours**

**Subject Code: CS101 Maximum Marks: 100**

#### **Answer ALL questions**

**PART – A (10 x 1 = 10 MARKS)**

1. What is a computer?

2. Every piece of information stored within the computer’s memory is enclosed in some unique combinations of \_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_ .

3. % operator is sometimes referred as \_\_\_\_\_\_\_\_.

4. What is a unary operator?

5. Write the syntax for ‘switch’ statement.

6. The value of the \_\_\_\_\_\_\_\_ argument within the calling routine will not change.

7. \_\_\_\_\_\_\_\_ and\_\_\_\_\_\_\_\_ are the two different ways to characterize variables.

8. An \_\_\_\_\_\_\_\_ is a sequence of memory location of the same data item.

9. Give an example for a ‘union’ declaration.

10. List any one category of stream oriented data files.

**PART – B (5 x 3 = 15 MARKS)**

11. Explain the structure of a C program.

12. Explain the conditional operator with an example.

13. Explain the ‘do-while’ control statement with suitable example.

14. Explain how arrays are passed to functions in C programming language.

15. Briefly explain the user-defined data types used in C programming language.

**PART – C (5 x 15 = 75 MARKS)**

16. Explain the different modes of operations by which a large computer can be shared by many different users.

(OR)

17. Enumerate the four basic types of constants used in C programming language.

18. Discuss the relational and logical operators used in C programming language.

(OR)

19. Explain the printf and scanf functions with suitable examples.

20. Define a function in C programming. Explain how a function can be accessed and the need of function prototype in a function.

(OR)

21. Write a program in C to calculate the factorial of a given input quantity using a recursive function.

22. Explain multidimensional arrays with a suitable example program.

(OR)

23. Discuss about multifile programs with suitable examples.

24. Explain ‘structure’ with suitable example program.

(OR)

25. What is a file? Explain the opening and closing of a data file with examples.