ANNA UNIVERSITY COIMBATORE

B.E. / B.TECH. DEGREE EXAMINATIONS : MAY / JUNE 2010

REGULATIONS : 2007

THIRD SEMESTER

070230010 - ADVANCED C PROGRAMMING

(COMMON TO CSE / IT)

TIME : 3 Hours   Max.Marks : 100

PART – A

(20 x 2 = 40 MARKS)

ANSWER ALL QUESTIONS

1.   List the importance of C?

2.   Define variables with an example.

3.   Define Array and its types.

4.   List some String-handling functions?

5.   What is forward jump?

6.   Difference between array and pointer.

7.   What is meant by pointer expression? Give some types of pointer expression?

8.   What is meant by recursive function?

9.   Define call by value.

10. Define Typedef. Give its syntax with an example.

11. Difference between structure and union.

12. Give the syntax and an example for enumeration data types.

13. What is EOF?

14. Write a program to display the contents of a file on screen using file operations.

15. What is the difference between a Binary file and a text file in C?

16. What are the three possible origin values for fseek ()?

17. What are the four phases of translation?

18. Why multiple lines are used in macro?

19. What is meant by macro processor?

20. How will you access the Command-Line arguments in C?

PART – B

(5 x 12 = 60 MARKS)

ANSWER ANY FIVE QUESTIONS

21. a) Describe various types of operator supported by C with suitable example.   (8)

    b) Write a C program to find the sum of array elements.   (4)

22. a) Explain briefly pointer to pointer with example.   (6)

    b) What is meant by dynamic memory allocation? List the various library   (6)
        functions used for dynamic memory allocation.

23. a) Write short notes on storage classes supported by C.   (6)

    b) Write a C program to implement the Summation of N -numbers   (6)
        by using recursive functions.

24. a) Write a C program to convert the temperature from Fahrenheit to Celsius   (8)
        using Structures.

    b) Explain bit fields with examples.   (4)

25. a) Explain any four file management functions with example. (6)

   b) Write a short note on error handling? (6)

26. a) What are binary files? How they differ from text files? (8)

   b) Write a C program to read the integer numbers from binary files. (4)

27. a) With the help of example, explain the use of variable length argument list. (8)

   b) Give comparison between near and far pointers. (4)

28. Draw and explain the operation of C preprocessor and its functions with example.

*****THE END*****