ANNA UNIVERSITY COIMBATORE

B.E. / B.TECH. DEGREE EXAMINATIONS : DECEMBER 2009

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. State the arithmetic expressions in C.
2. Define an array.
3. State the difference between procedure and function.
4. Define array of structures.
5. Define pointer.
6. List the syntax for opening and closing a file.
7. State the purpose of binary file.
8. How do you find the end of file?
9. What is a macro?
10. Define a preprocessor.
11. List the bitwise operators in C.
12. Define Command Line arguments.
13. What is a structure?
14. State the difference between structure and union.
15. How can you flush the contents of the file?
16. State the declaration of character and string in C.
17. Give an example of recursion.
18. State the dynamic memory allocation functions.
19. Define the purpose of control statements in C.

20. State the purpose of return statements

PART – B

(5 x 12 = 60 MARKS)

ANSWER ANY FIVE QUESTIONS

21. (a) Explain with an example the usage of pointers in functions. (8)

    (b) Explain the different logical expressions in C. (4)

22. (a) Explain the dynamic allocation functions in C. (6)

    (b) Discuss about Function Arguments. (6)

23. (a) Write a note on array of structures. (6)

    (b) Write a note on passing structure to functions. (6)

24. (a) Write a note on working with text files. (6)

    (b) Write a note on random access files in C. (6)

25. (a) Discuss in detail about Command Line arguments in C. (6)

    (b) Discuss in detail about C Preprocessor. (6)

26. Explain in detail about file management functions.

27. (a) Explain in detail about memory models and pointers. (6)

    (b) Explain in detail about pointer expressions. (6)

28. (a) Explain in detail about scope of functions. (6)

    (b) Write in detail about recursion. (6)