SUBJECT CODE : CS/MC/AT34

B.C.A. DEGREE EXAMINATION – NOVEMBER 2008
THIRD SEMESTER

COURSE   : MAJOR CORE
PAPER   : ADVANCED PROGRAMMING TECHNIQUES
TIME   : 1½ HOURS   MAX. MARKS: 50

SECTION – A

ANSWER ALL THE QUESTIONS: 10X1=10
Choose the correction answer:

1. The default storage class for local variables
   a) static   b) auto   c) extern   d) register

2. The members of structures are processed by using _____ operator
   a) &   b) +   c) $\rightarrow$ d) **.**

3. The function in C to release the memory occupied by a variable is _____
   a) malloc   b) calloc   c) free   d) realloc

4. The file pointer at end of file returns _____ value.
   a) -1   b) 0   c) 1   d) NULL

5. The preprocessor directive to add standard files to a C program
   a) # include   b) # define   d) # if   d) # ifdef

Fill in the blanks:

6. Structures within structures are called _____ structures.

7. The prefix form of a + b * c is _____.

8. The process of selectively filtering bits is called _____.

9. Pointers are passed to a function by value. (True/False)

10. The fread function reads from a stream or a specified file. (True/False)

SECTION – B

ANSWER ALL QUESTIONS: 5X2=10

11. What are pointer variables? What are the various pointer operators available?

12. Define a structure data type and give an example.

13. What is a file? What are the advantages of a file type of data?

14. Define a stack. What are the operations made on a stack?

15. What is a preprocessor? Name any two preprocessor directives.

SECTION - C
ANSWER ANY SIX QUESTIONS: 6X5=30

16.   Discuss the various storage classes in C with examples.

17.   Write note on array of structures. Give an example.

18.   Explain the various modes by which a file can be opened?

19.   What is dynamic allocation? What are the various functions available in C for the same purpose.

20.   Define a binary tree and explain the various tree traversal methods.

21.   Write the algorithm or procedure to insert and delete elements in a doubly linked list.

22.   Write the procedure to convert a infix expression to postfix expression.

23.   What is conditional compilation? Explain the various directives used in the same.

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