STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086
(For Candidates admitted during the academic year 2008-09 & thereafter)

SUBJECT CODE: CS/MC/AT34

B.C.A. DEGREE EXAMINATION – NOVEMBER 2010
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 correct answer:

1. The compiler automatically inserts _____ at the end of the string
   a) '\0' b) 0 c) null character d) both

2. A _____ is a collection of more than one element with different data type
   a) Array b) Structures c) Pointers d) All the above

3. The _____mode helps to open a file to add the text at the end
   a) Read b) write c) Append d) both

4. Dynamic data structure provides flexibility in adding, deleting or rearranging data item at
   a) run time b) compile time c) Execution time d) All the above

5. A defined macro can be undefined using the statement
   a) # undef identifier b) # undef variable c) # undef functions d) All the above

Fill in the blanks:

6. The process of calling a function using pointer to pass the addresses of variable is known as_____.
7. In union, memory is allocated for only one data type which is _____.
8. The_____ function sets the position to a desired point in the file.
9. A linked list is _____.
10. _____ is the directive for a macro definition.

SECTION – B

ANSWER ALL QUESTIONS: **5X2=10**

11. How will you access the address of a variable? Explain.
12. Define union? With example.

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13. State the difference between get C and put C functions.
14. List few advantages of linked list.
15. Explain the role of the C preprocessor.

SECTION – C

ANSWER ANY SIX QUESTIONS: **6X5=30**

16. Discuss the various storage classes available in C.
17. Explain pointers as function arguments with example.
18. Explain Arrays of structures with suitable example.
19. Discuss about Input and Output operations on files.
20. Discuss about MALLOC, CALLOC with example.
21. Explain about the types of Linked list in detail.
22. Explain the following
    a) # undef directive
    b) # include directive
23. Explain bitwise operators with examples.

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