

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086
(For candidates admitted during the academic year 2007– 08)

SUBJECT CODE : CS/PC/AT34

M.Sc. DEGREE EXAMINATION, NOVEMBER 2008
INFORMATION TECHNOLOGY
THIRD SEMESTER

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

SECTION – A
ANSWER ALL THE QUESTIONS **(5X2=10)**

1. Explain the output for the following code.

```
main ( )
{
int a = -3, b=2, c = 0, d;
d = ++ a && ++ b || + c;
printf (“a = %d, b = %d, c = %d, d = d%”, a, b, c, d);
}
```
2. How does a structure differ from an array?
3. What are file I/O functions?
4. List the advantages of using macro definition in a program.
5. List all dynamic memory allocation functions.

SECTION – B
ANSWER ANY FOUR QUESTIONS **(4X5=20)**

6. Define recursive function with an example program.
7. Explain about Processors.
8. Explain the various string handling functions.
9. Describe different types of Linked Lists.
10. Write a program to copy content of one file to another file.
11. Compare array of structures and arrays within structures.

SECTION – C
ANSWER ANY TWO QUESTIONS **(2X10=20)**

12. Explain with an example the different looping statements.
13. Define a structure called “student” with members name, roll number, age and subject 1 mark, subject 2 mark. Write a program to read data into the structure and print the same.
14. Write a program to implement stack as Linked List.

