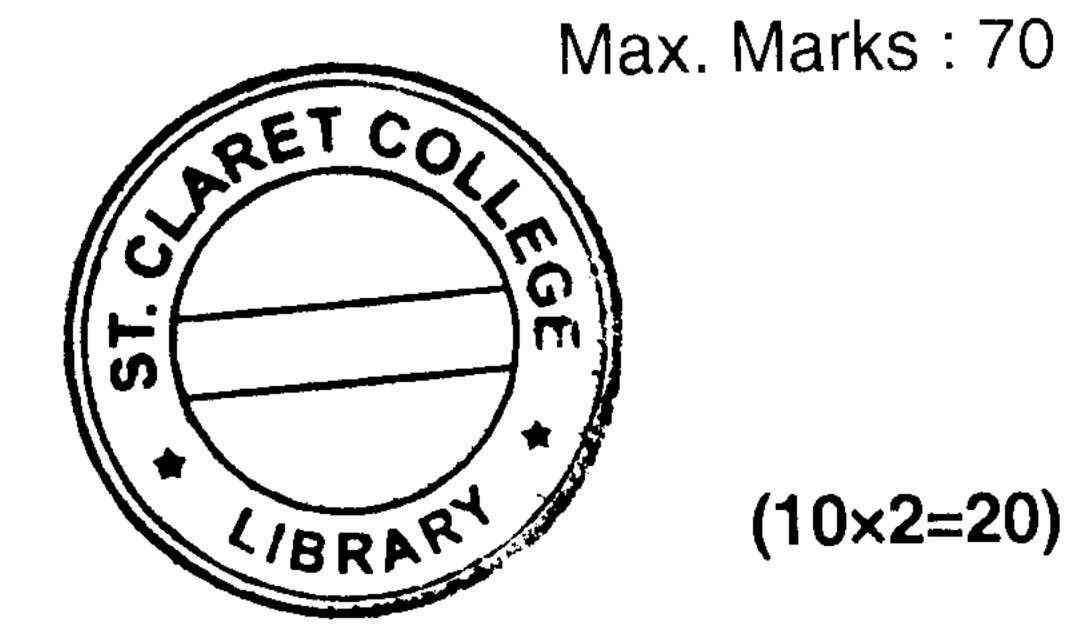
## I Semester B.C.A. Degree Examination, November/December 2015 (Y2K14 Scheme) (CBCS) COMPUTER SCIENCE

BCA 103T: Problem Solving Techniques Using 'C'

Time: 3 Hours

Instruction: Answer all Sections.

SECTION - A



- I. Answer any ten questions:
  - 1) Define algorithm.
  - 2) Define system software.
  - 3) What is header file?
  - 4) What are the rules for declaring variables in C?
  - 5) Give the syntax and example for If-Else statement.
  - 6) What is the difference between break and continue?
  - 7) How to declare and initialize two dimensional array?
  - 8) Difference between Strcmp() and Strcmpi().
  - 9) What is Mallac() and Calloc()?
  - 10) Give the difference between \* and & in C pointer.
  - 11) What is file pointer?
  - 12) What are command line arguments?

## SECTION - B

(5×10=50)
4
6
5
5



15)	Write a menu driven C program using switch-case to find:	
	a) Sum of the digits of a number	
	b) Factorial of N.	10
16)	Explain different types of user-defined functions with examples.	10
17)	a) Write a C program to arrange the given set of numbers in ascending order	r. 4
	b) Write a program to find the product of matrices of order $m \times n$ .	6
18	a) Explain call by value and call by reference with examples.	5
	b) Explain array of structures with an example.	5
19)	a) Explain different modes of opening a file.	5
	b) Write a C program to copy contents of one file to another.	5
20)	Write short notes on :	
	a) Local variable and global variable.	Ę
	b) While loop and Do-while loop.	5