



ACA-3899

Seat No. _____

M. Sc. (Sem. II) Examination

March / April - 2019

SSB - I : Mathematics

(Introduction to Computer "C" Language)

Time : 2 Hours]

[Total Marks : 50

- Instructions :**
- (1) All questions are compulsory.
 - (2) Follow standard notations and conventions.
 - (3) Each question carries 10 marks.

1 Attempt any **two** of the following :

- (a) Describe the brief history of C-language
- (b) Explain :
 - (i) Increment and Decrement
 - (ii) Logical operator.
- (c) Describe the Constant.

2 Attempt any **two** of the following :

- (a) Explain string handling functions with example.
- (b) Write in brief the Switch statement with example.
- (c) Write a program to compute the sum of the digits of any integer number.

- 3 Attempt any **two** of the following :
- (a) What is an array? Explain two dimensional array with example.
 - (b) Draw flow chart with explain the else...if ladder.
 - (c) Explain the following functions: (i) strcmp() (ii) strncmp() (iii) strcmp() (iv) strstr()
- 4 Attempt any **two** of the following :
- (a) Explain Jumps in loops.
 - (b) Write a program that will obtain the roots of the quadratic equation $ax^2 + bx + c = 0$.
 - (c) What are types of functions? Explain Recursion functions with example.
- 5 Answer the following questions :
- (a) What is meaning by following commands (i) %c (ii) %d (iii) %f
 - (b) Give any three names of special character.
 - (c) What is register variables, explain it.
 - (d) Define (i) Floating point (ii) Double
 - (e) When if statements are nested, the last else gets associated with the nearest if without an else. Is it true or false? Why?