M.Sc. (Mathematics with Applications in Computer Science) Term End Examination December 2020

MMTE-007(P), Soft Computing and its Applications

Time allowed: 1½ hours Maximum Marks 40

Note:

1) The question paper has two questions worth 40 marks each. Attempt both of them.

2) Write program in C language in your answer booklet.

1) Write a program in 'C' language to maximize $f(x) = \sqrt{x}$, subject to $1 \le x \le 900$ by considering the string length 10 using Genetic algorithm.

2) Write a program in 'C' language to find the modified cluster centers by applying FCM algorithm upto 10 iterations, and extend your program for the following data for two features f_1 and f_2 .

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f_1	1	2	3	4	5	6	7	8	9	10
f_1	5	10	12	13	10	11	9	8	7	8