

**M.Sc. (Mathematics with Applications in Computer  
Science)**

**Term End Examination**

**December 2020**

**MMT-001(P): Programming and Data Structures**

*Time allowed: 2 hours*

*Maximum Marks 50*

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**Note: There are two questions in this paper, totalling 50 marks. Answer both of them.**

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- 1) Write a C program that stores a polynomial in an array and prints the maximum number of real roots of the input polynomial, using the Descarte's rule of signs. (20)
- 2) Write a C program that accepts an IGNOU student's name, his/her enrolment number, and year of admission separated by commas. The program should accept a year of admission as input, and display all the students names and their enrolment numbers who took admission in that year. (30)