

MS(R)/PhD Admissions 2018-19

The MS(R)/PhD selection process will be conducted on 5th and 6th May 2018. Written and programming tests will be held on 5th May 2018. Candidates shortlisted based on their performance in these two tests will be called for interviews on 6th May 2018.

Details of the tests are as follows.

Written Test

Syllabus:

Mathematical Aptitude: Matrices, Determinants, Eigen Values and Eigen Vectors. Basic Probability: Random Variables, Conditional Probability, Bayes Theorem.

Programming and Data Structures: Programming in C. Recursion. Arrays, stacks, queues, linked lists, trees, binary search trees, binary heaps, graphs.

Algorithms: Searching, sorting, hashing. Asymptotic worst case time and space complexity. Graph search, minimum spanning trees, shortest paths.

Question Pattern: Multiple choice questions with only one correct answer

Time Duration: 1 hr 30 min.

Programming Test

Environment: Linux/Unix based system,

Compilers available: C, C++, Java, Python (the candidate must choose any one of these language for all the questions. The candidate can't use different languages for answering different questions. A specific IDE may not be available on the systems. It is expected that the candidate is comfortable with traditional editors in Linux environment such as vi, gedit etc.

Duration: 2 hours