

UNIVERSITY OF MUMBAI
DEPARTMENT OF COMPUTER SCIENCE

Syllabus for Entrance Examination (M.Sc. Computer Science with specialization in Data Science) (5 Questions in English and 10 in each of the other 5)	
1	English Three questions to test English comprehension of class XII level, Two questions to test the vocabulary knowledge / an appropriate usage of a word / correct forms of words
2.	General Knowledge Questions on History, Culture, Literature, Civics & Politics, Sports, Environmental science, Technology, Behavioral science & Psychology, knowledge of current affair from news broadcast
3.	Logic Analogy, Sequence, Blood relations. Predicate and Propositional logic
4.	Mathematics Matrices and Determinants, Lattice theory and linear algebra, Differentiation and integration, 2-D and 3-D geometry, Numerical methods
5.	Statistics Elementary statistics: Aggregation and measure of central tendency, Probability and Random numbers, Discrete and continuous probability distributions, Hypothesis testing, Operations research
6	Computer Science Algorithms and data structures, Operating environments and operating systems, Programming and software engineering, Finite state machines and Artificial intelligence, Networking and databases