

Syllabus for Computer Sciences (SCPH08)

Note:

- i. There will be one Question Paper which will have 100 questions.
- ii. All questions will be compulsory.
- iii. The Question Paper will have two Parts i.e. Part A and Part B
- iv. Part A will have 50 questions based on Research Methodology
- v. Part B will have 50 questions based on Subject-Specific Knowledge.

PART A

Research Methodology: Experimental Design; Fundamentals of Sampling; Data: types, quality measurement; Processing and Analysis of data; Hypothesis Testing (parametric, nonparametric), Theory of Probability.

Mathematics: Integral and Differential Calculus, Linear Algebra, Numerical Analysis, Modern Algebra.

PART B

Specific Syllabus for the Computer Science Stream:

Data Structures and Algorithms, Programming Languages (C, C++), Operating Systems, Discrete Mathematics, Automata Theory, Computer Architecture, Computer Networks, Database Management System.

