

Tata Institute of Fundamental Research (TIFR)

Entrance Test for Ph.D. Programme

EXAM PATTERN

The TIFR Examination is carried out as **ONLINE** Computer Based Test (CBT) where the candidates will be shown the questions in a random sequence on a computer screen. The duration of the examination is 3 hours. The medium for all the test papers is English only. There will be a total of 40 questions carrying 150 marks. The entire paper is divided into two sections, A and B.

- **SECTION A comprises 25 questions, numbered Q1 - Q25**
These are questions on basic topics.
- **SECTION B comprises 15 questions, numbered Q1 - Q15**
These may require somewhat more thought/knowledge.
- ALL questions are Multiple-Choice Type. In each case, **ONLY ONE** option is correct. Answer them by clicking the radio button next to the relevant option.
- The **grading scheme** will be as follows:
Section A : **+3** marks if correct; **-1** mark if incorrect; **0** marks if not attempted
Section B : **+5** marks if correct; **0** marks if incorrect or not attempted,
i.e. NO negative marks.

SYLLABUS

In general, the syllabus for the Admissions Tests in Physics (Written and Interview) is typically a course of studies in Physics as the main subject in the Undergraduate and Masters levels in an Indian University. The questions in the written test (multiple choice type) and the interviews are distributed over the following areas:

1. Classical Mechanics;
2. Mathematics relevant to Physics;
3. Electricity and Magnetism;
4. Quantum Mechanics;
5. Heat, Thermodynamics and Statistical Physics; General Physics;
6. Modern Physics;
7. Electronics and Experimental Physics.

