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TIFR Physics

Syllabus

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**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.



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**TIFR Physics  
Exam Instructions**

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**TIME: 3 HOURS****MAXIMUM MARKS: 150****Mode of Exam: Online****INSTRUCTIONS FOR ALL CANDIDATES APPEARING FOR THE  
PHYSICSPH.D. OR INTEGRATED Ph.D. TEST****PLEASE READ THESE INSTRUCTIONS CAREFULLY BEFORE YOU  
ATTEMPT THE QUESTIONS**

- You may NOT keep with you any books, papers, mobile phones or any electronic devices which can be used to calculate or get/store information. For a calculator, click the icon on the top right of the question frame on your screen.
- This test consists of TWO sections.
- **SECTION A comprises 25 questions, numbered Q.1-Q. 25.** These are questions on basic topics.
- **SECTION B comprises 15 questions, numbered Q. 1-Q. 15.** 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.
- If your calculated answer does not match any of the given options exactly, you may mark the closest one if it is reasonably close.
- 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.
- The invigilators will supply you with paper sheets for rough work.
- **Do NOT ask the invigilators for clarifications regarding the questions.** They have been instructed not to respond to any such queries. In case a correction/clarification is deemed necessary, it will be announced in the examination hall.
- You can get a list of **useful physical constants** by clicking on the link **Useful Data**. Make sure to use only these values in answering the questions, especially where the options are numerical, unless instructed otherwise in the question itself.