

# Mechanics Question Paper

Vechnyy Academia

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## Introduction

This question paper is a passion project designed to provide an enjoyable and stimulating challenge to high school graduates. Before attempting this paper, the examinee is expected to have thorough and analytical knowledge corresponding to classical mechanics. Most of the questions in this paper will combine several concepts from different areas of classical mechanics and will assess the examinee's ability to apply these concepts.

There are **10 questions** out of which, 5 are multiple choice questions while rest are numericals. They are expected to be solved in a duration of **3 hours** though the examinee may continue their attempt if the recommended time is not sufficient.

Every question in this paper is original and will not have solutions publicly available at the time of release. A solution manual will only be made available after 24 hours of the publication of the paper. Any individual that undertakes these questions is expected to give a genuine attempt to each problem and refer the solution manual only after they have tried to solve all the questions.

This question paper is greatly influenced by the book **Concepts of Physics** authored by **Dr Harish Chandra Verma**, PhD Retired Professor Department of Physics IIT, Kanpur. The above mentioned book delves into the fundamental concepts of physics, providing clear explanations of the principles and laws that govern the physical universe and is a driving force behind the passion of creating this question paper.

It is advisable that the examinee has the following items with them before proceeding with their attempt:

- Two simple Ball Point Pen
- Small stack of A4 ruled pages for rough work
- Physical printout of this question paper
- Personal water bottle

Use of calculator is discouraged. All the best for your attempt.