

**FIRST SEMESTER DIPLOMA EXAMINATION IN  
ENGINEERING/TECHNOLOGY — MARCH, 2016**

**ENGINEERING PHYSICS – I**

(Common to all branches except CABM and DCP)

[Time : 3 hours

(Maximum marks : 100)

**PART — A**

(Maximum marks : 10)

Marks

I. Answer all questions in one or two sentences. Each question carries 2 marks.

1. What are the advantages of SI over all other unit systems ?
2. Define the terms resultant and equilibrant of two forces.
3. Distinguish between stress and strain. Give their units.
4. What is meant by resonance ?
5. Define simple harmonic motion. Give two examples for simple harmonic motion.

(5×2 = 10)

**PART — B**

(Maximum marks : 30)

II. Answer any five questions from the following. Each question carries 6 marks.

1. State the law of motion that helps us to measure force. Define force and explain how force is measured ?
2. Give an example to illustrate the third law. Explain the principle of rocket propulsion and recoil of a gun.
3. What is meant by resolution of a vector ? What is rectangular resolution ? Give two rectangular components of force 4N acting at an angle  $30^\circ$  to the horizontal.
4. The largest resultant of two forces P and Q is 31N and the least resultant is 17N. What is the resultant if P and Q act at right angles ?
5. Describe an experiment to find the Young's modulus of a wire.
6. The volume of a metal sphere of radius 7cm is decreased by 0.019 centimeter cube when subjected to a pressure of 124 kN/m<sup>2</sup>. Find out its bulk modulus.
7. Derive the expression for the fundamental frequency and second harmonic in an open pipe of length l.

(5×6 = 30)

# Diploma First Semester Physics Questions Paper

**Liying Dong**



**Diploma First Semester Physics Questions Paper:**

Diploma First Semester Physics Questions Paper: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Diploma First Semester Physics Questions Paper : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Diploma First Semester Physics Questions Paper : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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