
PHYSICS
SCIENCE Paper – 1
(Two hours)

Answers to this Paper must be written on the paper provided separately.

*You will **not** be allowed to write during the first 15 minutes.*

This time is to be spent in reading the Question Paper.

The time given at the head of this Paper is the time allowed for writing the answers.

*Section I is compulsory. Attempt **any four** questions from Section II.*

The intended marks for questions or parts of questions are given in brackets [].

SECTION I (40 Marks)

*Attempt **all** questions from this Section.*

Question 1

- (a) Name a metal commonly used to make a calorimeter. Give a reason to support your answer. [2]
- (b) Draw a well labelled circuit diagram for the verification of Ohm's law. [2]
- (c) Why is radioactivity considered to be a nuclear phenomenon? [2]
- (d) Draw a ray diagram to show how a convex lens can be used as a magnifying glass. [2]
- (e) A metal ball of mass 60 g falls on a concrete floor from a vertical height of 2.8m and rebounds to a height of 1.3 m. Find the change in K.E. in S.I. units. [2]

Question 2

- (a) What is the work done by a force when the force is:
- (i) normal to the displacement produced. [2]
- (ii) in the same direction as the displacement produced.
- (b) State the S.I. unit of specific heat capacity and heat capacity. [2]
- (c) Draw a labelled diagram to show the path of a monochromatic light ray of light in a prism kept at its angle of minimum deviation. [2]

This paper consists of 5 printed pages.

Diploma First Year Applied Physics Questions Paper

Wolfgang Guggemos



Diploma First Year Applied Physics Questions Paper:

Sessional Papers Great Britain. Parliament. House of Commons,1902 Parliamentary Papers Great Britain. Parliament. House of Commons,1918 *World Congress on Medical Physics and Biomedical Engineering May 26-31, 2012, Beijing, China* Mian Long,2013-02-11 The congress s unique structure represents the two dimensions of technology and medicine 13 themes on science and medical technologies intersect with five challenging main topics of medicine to create a maximum of synergy and integration of aspects on research development and application Each of the congress themes was chaired by two leading experts The themes address specific topics of medicine and technology that provide multiple and excellent opportunities for exchanges **Engineering** ,1928 **Paper-maker and British Paper Trade Journal** ,1969 *The Gas Engineer's Magazine* ,1929 Journal of the Federated Institutes of Brewing Institute of Brewing (Great Britain),1930 **Gas World** ,1927 *The Chemical News and Journal of Physical Science* ,1903 **The Optician and Scientific Instrument Maker** ,1926 *Gas Journal* ,1927 **Journal of Gas Lighting and Water Supply** ,1912 *Iron & Coal Trades Review* ,1918 Vol 115 includes Diamond jubilee issue 1867 1927 Mines, Miners and Mining Interests of the United States in 1882 ,1882 **Pratiyogita Darpan** ,2007-02 Pratiyogita Darpan monthly magazine is India s largest read General Knowledge and Current Affairs Magazine Pratiyogita Darpan English monthly magazine is known for quality content on General Knowledge and Current Affairs Topics ranging from national and international news issues personality development interviews of examination toppers articles write up on topics like career economy history public administration geography polity social environment scientific legal etc solved papers of various examinations Essay and debate contest Quiz and knowledge testing features are covered every month in this magazine The Journal of Gas Lighting, Water Supply & Sanitary Improvement ,1901 *The Electrical Engineer* ,1897 *Handbook of Indian Universities* Inter-University Board of India,1948 The Foundry Trade Journal ,1928 **The Electrical Journal** ,1907

Diploma First Year Applied Physics Questions Paper: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have captivated audiences this year. Diploma First Year Applied Physics Questions Paper : Colleen Hoover's "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 succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative 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, captivating readers with its evocative prose and mesmerizing setting. These bestselling 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 captivating stories waiting to be discovered. The novel begins with Richard Papan, 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 guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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