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**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.*

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

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

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**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]

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**This paper consists of 5 printed pages.**

# Diploma First Year Applied Physics Questions Paper

**Roman Wölfel**



## **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      Journal of the Federated Institutes of Brewing Institute of Brewing (Great Britain),1930      **Paper-maker and British Paper Trade Journal** ,1969      *The Chemical News and Journal of Physical Science* ,1903      *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      **Gas World** ,1927      *Gas Journal* ,1927      **Journal of Gas Lighting and Water Supply** ,1912      **Educational Institutions Pamphlets** ,1922      Iron & Coal Trades Review ,1918 Vol 115 includes Diamond jubilee issue 1867 1927      **French University Degrees, Doctorates and Other Diplomas** Comité de Patronage des Étudiants Étrangers, Paris,1910      Mines, Miners and Mining Interests of the United States in 1882 ,1882      The Journal of Gas Lighting, Water Supply & Sanitary Improvement ,1901      **Handbook of Indian Universities** ,1948      *The Foundry Trade Journal* ,1928      **The Electrical Journal** ,1907      **The Gas Engineer's Magazine** ,1929

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In some sort of used by screens and the ceaseless chatter of instantaneous conversation, the melodic elegance and mental symphony created by the prepared word often disappear into the background, eclipsed by the relentless noise and interruptions that permeate our lives. Nevertheless, situated within the pages of **Diploma First Year Applied Physics Questions Paper** a stunning fictional treasure full of organic thoughts, lies an immersive symphony waiting to be embraced. Constructed by a masterful musician of language, that charming masterpiece conducts visitors on a mental journey, skillfully unraveling the concealed songs and profound affect resonating within each carefully crafted phrase. Within the depths with this emotional analysis, we will investigate the book is key harmonies, analyze their enthralling publishing model, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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