

CBSE Class 12 Physics Sample Paper Set 1

Class XII Physics

Time: 3 hours

Maximum Marks: 70

General Instructions:

- (i) All questions are compulsory. There are 26 questions in all.
- (ii) This question paper has **five** sections: Section A, Section B, Section C, Section D and Section E.
- (iii) Section A contains **five** questions of **one** mark each, section B contains **five** questions of **two** marks each, section C contains **twelve** questions of **three** marks each, section D contains one value based question of **four** marks and section E contains **three** questions of **five** marks each.
- (iv) There is no overall choice. However, an internal choice has been provided in one question of two marks, one question of three marks and all the three questions of five marks weightage. You have to attempt only one of the choices in such questions.
- (v) You may use the following values of physical constants wherever necessary:

$$\begin{aligned}
 c &= 3 \times 10^8 \text{ m/s} \\
 h &= 6.63 \times 10^{-34} \text{ Js} \\
 e &= 1.6 \times 10^{-19} \text{ C} \\
 \mu_0 &= 4\pi \times 10^{-7} \text{ T mA}^{-1} \\
 \epsilon_0 &= 8.854 \times 10^{-12} \text{ C}^2 \text{ N}^{-1} \text{ m}^{-2} \\
 \frac{1}{4\pi\epsilon_0} &= 9 \times 10^9 \text{ N m}^2 \text{ C}^{-2} \\
 m_e &= 9.1 \times 10^{-31} \text{ kg} \\
 \text{Mass of neutron} &= 1.675 \times 10^{-27} \text{ kg} \\
 \text{Mass of proton} &= 1.673 \times 10^{-27} \text{ kg} \\
 \text{Avogadro's number} &= 6.023 \times 10^{23} \text{ per gram mole} \\
 \text{Boltzmann constant} &= 1.38 \times 10^{-23} \text{ J K}^{-1}
 \end{aligned}$$

SECTION – A

- Q. 1 Define the term 'mobility' of charge carriers. Write its S.I. unit. [1]
- Q. 2 In a series LCR circuit, $V_L = V_C \neq V_R$. What is the value of power factor? [1]
- Q. 3 The focal length of an equiconvex lens is equal to the radius of curvature of either face. What is the refractive index of the material of the lens? [1]
- Q. 4 Write a relation for polarisation \vec{P} of a dielectric material in the presence of an external electric field \vec{E} . [1]

Phyiscs Paper1grd 12014

Jacques Cattell press



Physcs Paper1grd 12014:

Veterinary Medical School Admission Requirements (VMSAR) Association of American Veterinary Medical Colleges, 2014-04 The choice of a career in veterinary medicine must begin with early preparation for selective admissions standards Students patients mentors and advisors can find all the information needed for informed decision making in VMSAR the official handbook for all AAVMC member institutions Prepared by the Association of American Veterinary Medical Colleges the 2014 2015 edition includes detailed information on Veterinary Medical College Application Service VMCAS residency requirements tuition standardized test requirements deadlines special programs accreditation and licensure VMSAR is the most current guide that will answer the important questions about applying to a veterinary college The AAVMC provides leadership for and promotes excellence in academic veterinary medicine to prepare the veterinary workforce with the scientific knowledge and skills required to meet societal needs through the protection of animal health the relief of suffering the conservation of animal resources the promotion of public health and the advancement of medical knowledge back cover Physics Briefs ,1989 **Cancer, Radiation Therapy, and the Market** Barbara Bridgman Perkins, 2017-08-16 Appraising cancer as a major medical market in the 2010s Wall Street investors placed their bets on single technology treatment facilities costing 100 300 million each Critics inside medicine called the widely publicized proton center boom crazy medicine and unsustainable public policy There was no valid evidence they claimed that proton beams were more effective than less costly alternatives But developers expected insurance to cover their centers staggeringly high costs and debts Was speculation like this new to health care Cancer Radiation Therapy and the Market shows how the radiation therapy specialty in the United States later called radiation oncology coevolved with its device industry throughout the twentieth century Academic engineers and physicians acquired financing to develop increasingly powerful radiation devices initiated companies to manufacture the devices competitively and designed hospital and freestanding procedure units to utilize them In the process they incorporated market strategies into medical organization and practice Although palliative benefits and striking tumor reductions fueled hopes of curing cancer scientific research all too often found serious patient harm and disappointing beneficial impact on cancer survival This thoroughly documented and provocative inquiry concludes that public health policy needs to re evaluate market driven high tech medicine and build evidence based health care systems *Scientific and Technical Aerospace Reports* ,1973 *House documents* ,1880 House Documents, Otherwise Publ. as Executive Documents United States. Congress. House, 1880 **Rare Earth Frontiers** Julie M. Klinger, 2018-01-15 Rare Earth Frontiers is a work of human geography that serves to demystify the powerful elements that make possible the miniaturization of electronics green energy and medical technologies and essential telecommunications and defense systems Julie Michelle Klinger draws attention to the fact that the rare earths we rely on most are as common as copper or lead and this means the implications of their extraction are global Klinger excavates the rich historical origins and

ongoing ramifications of the quest to mine rare earths in ever more impossible places Klinger writes about the devastating damage to lives and the environment caused by the exploitation of rare earths She demonstrates in human terms how scarcity myths have been conscripted into diverse geopolitical campaigns that use rare earth mining as a pretext to capture spaces that have historically fallen beyond the grasp of centralized power These include legally and logistically forbidding locations in the Amazon Greenland and Afghanistan and on the Moon Drawing on ethnographic archival and interview data gathered in local languages and offering possible solutions to the problems it documents this book examines the production of the rare earth frontier as a place a concept and a zone of contestation sacrifice and transformation Report of the Commissioner of Education ,1881 *Report of the Federal Security Agency* United States. Office of Education,1881

Monthly Catalogue, United States Public Documents ,1979 **Report of the Commissioner of Education Made to the Secretary of the Interior for the Year ... with Accompanying Papers** United States. Bureau of Education,1881

Annual Report United States. Dept. of the Interior,1878 **Black Girls Experiencing Their Intersectional Identities in School** Crystal L. Edwards,2019-10-17 Black Girls Experiencing Their Intersectional Identities in School explores the subjective experience of Black girls within the educational context Based on interviews diary entries and focus groups the author argues that as a result of their intersectional identities Black girls experience unique challenges and obstacles in the educational setting Addressing topics ranging from interpersonal relationships social media beauty sexuality hypervisibility invisibility and microaggressions this book highlights the voices and experiences of Black girls between the ages of 11 and 15 The Girls provide a narrative account of the challenges they face daily in the educational context describing in detail the factors that maintain and perpetuate volatile conditions Additionally this book explores the coping strategies that this group of Black girls developed to resist and respond to the daily obstacles Ultimately this book not only identifies the unique struggles faced by Black girls in schools as a result of their intersectional identities but most importantly this work explores pragmatic strategies that can be implemented to create safe and beneficial spaces for Black Girls The author argues that through the implementation of Black Feminist Pedagogy an Ethic of Caring and partnerships with Black Girl Empowerment organizations educational practitioners can mediate the negative experiences and create spaces for growth **Schülervorstellungen und Physikunterricht** Horst Schecker,Thomas Wilhelm,Martin

Hopf,Reinders Duit,2018-08-31 Dieses Lehrbuch hilft Lehramtsstudierenden Referendaren und Lehrkräften der Physik besser zu verstehen was sich hinter Schüleraussagen versteckt Oft weichen Schülerantworten im Physikunterricht von dem ab was man als Lehrkraft erwartet oder erhofft Dahinter stehen Vorstellungen die von den Alltagserfahrungen der Schülerinnen und Schüler geprägt sind Für das Unterrichten und das Lernen von Physik ist von zentraler Bedeutung was die Kinder und Jugendlichen an Vorwissen Vorstellungen und Denkmustern bereits mitbringen Auf dieser Grundlage verarbeiten Lernende neue Informationen Die Autorinnen und Autoren stellen den Erkenntnisstand bei Schülervorstellungen zu physikalischen

Begriffen dar und stellen Lernmöglichkeiten für Probleme im Schulunterricht vor In den ersten drei Kapiteln werden die theoretischen Grundlagen sowie Strategien des Umgangs mit Schilervorstellungen bei der Unterrichtsgestaltung erläutert In zehn folgenden Themenkapiteln werden konkrete Schilervorstellungen vorgestellt ihre Hintergründe erklärt und Vorschläge gemacht wie man mit diesem Wissen Lernangebote besser gestalten kann Die Inhaltsbereiche erstrecken sich vom Anfangsunterricht in der Grundschule bis hin zur gymnasialen Oberstufe Dazu zählen die Mechanik Optik Elektrizität Wärmelehre Quantenphysik und weitere Gebiete sowie allgemeine Vorstellungen über die Physik als Wissenschaft Die Leserinnen und Leser werden typische Schilervorstellungen in wichtigen Gebieten der Physik kennen auf Basis dieses Wissens Lernschwierigkeiten bei Schülerinnen und Schülern diagnostizieren können wissen wie man Lernenden helfen kann ihre Vorstellungen weiterzuentwickeln wissen wo man Unterrichtskonzeptionen findet die Schilervorstellungen berücksichtigen Möglichkeiten kennen wie man Schilervorstellungen bei der Unterrichtsplanung und Durchführung berücksichtigen kann und nicht zuletzt die eigenen Vorstellungen zu zentralen physikalischen Konzepten fachlich durchdacht haben Schilervorstellungen sind auch ein guter Anlass die grundlegenden Begrifflichkeiten der Physik für sich selbst noch einmal fachlich zu durchdenken Hierzu regt das vorliegende Lehrbuch mit fachlichen Erläuterungen an

Moore's Rural New-Yorker ,1891 **Mathematical Reviews** ,1991 **Industrial Research Laboratories of the United States** Jacques Cattell press,1983 *National Union Catalog* ,1956 Includes entries for maps and atlases **The British National Bibliography** Arthur James Wells,1994 Scientific and Technical Books and Serials in Print ,1984

Physcs Paper1grd 12014 Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has be much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Physcs Paper1grd 12014**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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