

Class XII  
Physics

Time: 3 hours

Maximum Marks: 70

## General Instructions:

- All questions are compulsory. There are 26 questions in all.
- This question paper has five sections: Section A, Section B, Section C, Section D and Section E.
- 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.
- 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.
- You may use the following values of physical constants wherever necessary.

$$c = 3 \times 10^8 \text{ m/s}$$

$$h = 6.63 \times 10^{-34} \text{ Js}$$

$$e = 1.6 \times 10^{-19} \text{ C}$$

$$\mu_0 = 4 \pi \times 10^{-7} \text{ T mA}^{-1}$$

$$\epsilon_0 = 8.854 \times 10^{-12} \text{ C}^2 \text{ N}^{-1} \text{ m}^{-2}$$

$$\frac{1}{4\pi\epsilon_0} = 9 \times 10^9 \text{ N m}^2 \text{ C}^{-2}$$

$$m_e = 9.1 \times 10^{-31} \text{ kg}$$

$$\text{Mass of neutron} = 1.675 \times 10^{-27} \text{ kg}$$

$$\text{Mass of proton} = 1.673 \times 10^{-27} \text{ kg}$$

$$\text{Avogadro's number} = 6.023 \times 10^{23} \text{ per gram mole}$$

$$\text{Boltzmann constant} = 1.38 \times 10^{-23} \text{ J K}^{-1}$$

## SECTION - A

**Q. 1** Define the term 'mobility' of charge carriers. Write its S.I. unit [1]

**Q. 2** In a series LCR circuit,  $V_L = V_C = V_R$ . 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  $P$  of a dielectric material in the presence of an external electric field  $\vec{E}$ . [1]

# 2014 Grd12 Physics Paper

**Bautista, Jude Cañero, Kim, Jean**

## 2014 Grd12 Physics Paper:

**School Science Practical Work in Africa** Umesh Ramnarain,2020-06-01 School Science Practical Work in Africa presents the scope of research and practice of science practical work in African schools It brings together prominent science educators and researchers from Africa to share their experience and findings on pedagogical innovations and research informed practices on school science practical work The book highlights trends and patterns in the enactment and role of practical work across African countries Practical work is regarded as intrinsic to science teaching and learning and the form of practical work that is strongly advocated is inquiry based learning which signals a definite paradigm shift from the traditional teacher dominated to a learner centered approach The book provides empirical research on approaches to practical work contextual factors in the enactment of practical work and professional development in teaching practical work This book will be of great interest to academics researchers and post graduate students in the fields of science education and educational policy

**Bridging Research and Practice in Science Education** Eilish McLoughlin,Odilla E. Finlayson,Sibel Erduran,Peter E. Childs,2019-08-27 This edited volume presents innovative current research in the field of Science Education The chapter s deal with a wide variety of topics and research approaches conducted in a range of contexts and settings Together they make a strong contribution to knowledge on science teaching and learning The book consists of selected presentations from the 12th European Science Education Research Association ESERA Conference held in Dublin Ireland from 21st to 25th August 2017 The ESERA community is made up of professionals with diverse disciplinary backgrounds from natural sciences to social sciences This diversity enables a rich understanding of cognitive and affective aspects of science teaching and learning The studies in this book will stimulate discussion and interest in finding new ways of implementing and researching science education for the future The twenty two chapters in this book are presented in four parts highlighting innovative approaches to school science emerging identities in science education approaches to developing learning and competence progressions and ways of enhancing science teacher education This collection of studies showcases current research orientations in science education and is of interest to science teachers teacher educators and science education researchers around the world with a commitment to bridging research and practice in science teaching and learning

*Overcoming Students' Misconceptions in Science* Mageswary Karpudewan,Ahmad Nurulazam Md Zain,A.L. Chandrasegaran,2017-02-28 This book discusses the importance of identifying and addressing misconceptions for the successful teaching and learning of science across all levels of science education from elementary school to high school It suggests teaching approaches based on research data to address students common misconceptions Detailed descriptions of how these instructional approaches can be incorporated into teaching and learning science are also included The science education literature extensively documents the findings of studies about students misconceptions or alternative conceptions about various science concepts Furthermore some of the studies involve systematic approaches to not only creating but also

implementing instructional programs to reduce the incidence of these misconceptions among high school science students. These studies however are largely unavailable to classroom practitioners partly because they are usually found in various science education journals that teachers have no time to refer to or are not readily available to them. In response this book offers an essential and easily accessible guide *Global Perspective on Issues and Trends in Educational Translanguaging* Bautista, Jude Cañero, Kim, Jean, 2025-05-29. The growing superdiversity around the world now appears to be the norm. In traditional English speaking inner circle nations it is becoming increasingly rare to find classrooms with students who come from monocultural and monolingual backgrounds. However teaching practices remain based on Anglocentric standards and perspectives even when most of the English speakers in the world are no longer just the monolingual speakers of the language. Research in bilingualism and multilingualism reverberate the potential of translanguaging as a pedagogical practice. This is to leverage all the linguistic cultural and semiotic resources of learners so that they can actively engage in the language literacy and content area learning processes in the classroom. However even though it has gained ground in theory and research it has not been upheld in instructional practice especially in the Anglophone nations. While some regions view translanguaging as a pathway to educational justice others face barriers such as limited resources administrative constraints or lack of teacher training. Despite its promise concerns remain around the selective use of languages and the risk of reinforcing existing linguistic hierarchies. *Global Perspective on Issues and Trends in Educational Translanguaging* explores translanguaging pedagogies from both monolingual English speaking contexts and multilingual and multicultural contexts. It examines a monolingual multilingual pairing of theoretical research and practical perspectives from around the world assessing how translanguaging pedagogies are practiced and researched worldwide. This book covers topics such as indigenous studies migrant learners and pedagogy and is a useful resource for educators language experts academicians researchers and scientists *Environmental and Sustainability Education in Teacher Education* Douglas D. Karrow, Maurice DiGiuseppe, 2020-01-01. This book was inspired by the inaugural National Roundtable on Environmental and Sustainability Education in Canadian Faculties of Education Roundtable 2016 which took place June 14-16 2016 at Trent University in Peterborough Ontario. Roundtable 2016 brought together over seventy participants from across Canada including educators researchers policy makers consultants and community organizations. Over the course of three days participants took part in keynote addresses research colloquia networking socials and collaborative inquiry activities focused on Environmental Sustainability Education in Teacher Education. ESE TE Roundtable 2016 resulted in the publication of a National Action Plan containing action oriented recommendations for enhancing ESE TE and a position statement titled The Otonabee Declaration where delegates articulated their views regarding environmental degradation the critical need for enhancing ESE TE and the role educators children youth educational institutions policy makers and Indigenous communities play in enhancing ESE TE in Canada. This volume concludes with a discussion placing current Canadian ESE TE theory and practice within an

international context    **Active Learning: Theoretical Perspectives, Empirical Studies and Design Profiles** Robert Cassidy,Elizabeth S. Charles,James D. Slotta,Nathaniel Lasry,2019-07-11 This book represents the emerging efforts of a growing international network of researchers and practitioners to promote the development and uptake of evidence based pedagogies in higher education at something a level approaching large scale impact By offering a communication venue that attracts and enhances much needed partnerships among practitioners and researchers in pedagogical innovation we aim to change the conversation and focus on how we work and learn together i e extending the implementation and knowledge of co design methods In this first edition of our Research Topic on Active Learning we highlight two of the three types of publications we wish to promote First are studies aimed at understanding the pedagogical designs developed by practitioners in their own practices by bringing to bear the theoretical lenses developed and tested in the education research community These types of studies constitute the practice pull that we see as a necessary counterbalance to knowledge push in a more productive pedagogical innovation ecosystem based on research practitioner partnerships Second are studies empirically examining the implementations of evidence based designs in naturalistic settings and under naturalistic conditions Interestingly the teams conducting these studies are already exemplars of partnerships between researchers and practitioners who are uniquely positioned as in between straddling the two worlds As a result these publications represent both the rigours of research and the pragmatism of reflective practice In forthcoming editions we will add to this collection a third type of publication design profiles These will present practitioner developed pedagogical designs at varying levels of abstraction to be held to scrutiny amongst practitioners instructional designers and researchers alike We hope by bringing these types of studies together in an open access format that we may contribute to the development of new forms of practitioner researcher interactions that promote co design in pedagogical innovation    **Creating Stellar Lessons with Digital Tools** Kenneth J. Luterbach,2022-05-12 Creating Stellar Lessons with Digital Tools prepares teachers in training and in service teachers to use technologies for design and development activities with middle and high school students While software open resources handheld devices and other tools hold great potential to enhance learning experiences teachers themselves must model technology use in ways that inspire students to become producers and leaders rather than consumers and followers Featuring concrete applications in social studies English mathematics and science scenarios this book provides pre service and in service teachers with seven paths to creatively integrate and innovate with computational thinking datasets maker spaces visual design media editing and other approaches    Documentation Abstracts ,1984

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