

**PHYSICS**

Paper &amp; Solution

Code: 55/3

Max. Marks: 70

Time: 3 Hrs.

General Instructions:

- (i) All questions are compulsory.
- (ii) There are 29 questions in total. Questions 1 to 8 are very short answer type questions and carry one mark each.
- (iii) Questions 9 to 16 carry two marks each, questions 17 to 25 carry three marks each and questions 27 to 29 carry 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 three questions of five marks each. You have to attempt only one of the choices in such questions.
- (v) Question 26 is a value based question carrying four marks.
- (vi) Use of calculators is not permitted. However, you may use log tables if necessary.
- (vii) You may use the following values of physical constants wherever necessary :

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

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

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

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

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

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

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

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

**SECTION A**

1. Write the expression for the de Broglie wavelength associated with a charged particle having charge 'q' and mass 'm', when it is accelerated by a potential V

Solution:

$$\lambda = \frac{h}{\sqrt{2mqV}}$$

2. The graph shown in the figure represents a plot of current versus voltage for a given semiconductor. Identify the region, if any, over which the semiconductor has a negative resistance



Solution:

BC

# Grade Physics Paper 2013

**Rosina Ehmman**



## Grade Physics Paper 2013:

**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.

**Students' Motivations and Emotions in Chinese Science Classrooms** Xiaoyang Gong, 2023-12-05 The book reviews and examines students' motivations and emotions in Chinese science classrooms. By adopting different approaches such as content analysis, factor analysis, path analysis and latent profile analysis, the author analyzes the content of literature, curriculum standards and textbooks, classroom observations, survey data, interview data and open ended responses from students and teachers through a literature review and six empirical studies. The findings may provide insights for education researchers and practitioners seeking to improve science teachers' pedagogical practices and create friendlier classroom environments. Researchers of science education or those who are interested in investigating students' affective perceptions in specific subject contexts will find this book interesting.

**Study Guide for CTET Paper 2 (Class 6 - 8 Teachers) Mathematics/ Science with Past Questions** Disha Experts, 2020-02-04

**UPSC Power Bank: 1000+ MCQs for UPSC and State PSCs and exams Modern History (For Latest Edition)** Oswaal Editorial Board, 2024-10-12 100% Updated with the Latest Pattern of Questions asked in UPSC Prelims. Extensive Practice with 1000 MCQs based on UPSC State PSCs latest pattern. Flash Facts with Crisp revision notes with smart mind maps. Concept Clarity with Detailed Elaborated Solutions. 100% Exam Readiness with Study Approach Video Trend Analysis Provided by UPSC Experts.

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**Biology Education and Research in a Changing Planet** Esther Gnanamalar Sarojini Daniel, 2015-08-17 This book presents selected conference proceedings from the 25th Biennial Asian Association for Biology Education Conference. It clarifies the differences between the structure of biology education for educators and researchers. It solves open problems by

creating a bridge between biological research and its application in education and the sustainable development of communities The book s first topic is Biology Education in an X Y Z World which provides ideas for how biology can be taught in innovative ways The second topic The Endangered Planet How can Biology Education Help discusses how humans depend on other species for survival and how they have the power to cause or to prevent extinctions The third and final topic Research in Biology encompasses the growing wealth of biological information resulting from scientific research especially in universities Educators can use these findings to enhance their teaching

**Oswaal CDS (Combined Defence Services) 14 Solved Papers Year-wise 2018-2024 (II) | General Knowledge | For 2025 Exam** Oswaal Editorial Board,2024-09-26

Union Public Service Commission UPSC every year conducts a CDS exam twice a year for candidates who wish to make their career in the defence forces Army Navy and Air Force The Combined Defence Services Examination is conducted for admission to the Indian Military Academy IMA Indian Naval Academy INA Air Force Academy AFA and Officers Training Academy OTA The CDS selection process comprises two stages written exams and SSB interviews The final selection of candidates is done based on the performance in both stages After completing training at IMA INA AFA and OTA candidates are selected for the post of Lieutenant In 2024 Approx 4 5 Lacs students applied for the CDS examination the opportunity you get from the Indian Armed Forces is just limitless which helps in enhancing your personality traits For a youngster who is aspiring to get a job full of challenges and excitement then there is no better job than the defence This book aims to make aspirants exam ready boost their confidence and help them achieve better results in CDS By making learning Simple we are also making better careers and a better life for every student Every day we are moving ahead pursuing our noble cause of spreading knowledge This set of solved question papers is designed to enrich students with ample and examoriented practice so that they can clear CDS Examination with extraordinary results Not one or two but 14 Previous Year Solved Question Paper 2018 to 2024 II focussed on polishing every topic Thorough studying of this book will boost my confidence and familiarise me with exam patterns Some benefits of studying from Oswaal CDS check 14 Previous year solved question papers 100% updated with Fully Solved Paper of September 2024 II Concept Clarity with detailed explanations of 2018 to 2024 I Papers Extensive Practice with 1600 Questions and Two Sample Question Papers Crisp Revision with Mind Maps Expert Tips helps you get expert knowledge master crack CDS in first attempt Exam insights with Previous Years 2024 2019 Trend Analysis empowering students to be 100% exam ready Our Heartfelt Gratitude Finally we would like to thank our authors editors and reviewers Special thanks to our students who send us suggestions and constantly help improve our books To stay true to our motto of Learning Made Simple we constantly strive to present information in ways that are easy to understand as well as remember

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and Air Force The Combined Defence Services Examination is conducted for admission to the Indian Military Academy IMA Indian Naval Academy INA Air Force Academy AFA and Officers Training Academy OTA The CDS selection process comprises two stages written exams and SSB interviews The final selection of candidates is done based on the performance in both stages After completing training at IMA INA AFA and OTA candidates are selected for the post of Lieutenant In 2024 Approx 4 5 Lacs students applied for the CDS examination the opportunity you get from the Indian Armed Forces is just limitless which helps in enhancing your personality traits For a youngster who is aspiring to get a job full of challenges and excitement then there is no better job than the defence This book aims to make aspirants exam ready boost their confidence and help them achieve better results in CDS By making learning Simple we are also making better careers and a better life for every student Every day we are moving ahead pursuing our noble cause of spreading knowledge This set of solved question papers is designed to enrich students with ample and examoriented practice so that they can clear CDS

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**Learning and Teaching via Neuroscience** Lorna Uden, Gregory Siy Ching, Amy Corrinne Roberts, 2023-11-15 Neuroscience contributes to the basic understanding of the neural mechanisms underlying human development and learning Educational neuroscience is an interdisciplinary research field that seeks to translate research findings on neural mechanisms of learning to educational practice and policy and to understand the effects of education on the brain It is an emerging multidisciplinary field where the aim is to link basic research in neuroscience psychology and cognitive science with educational technology Educational neuroscience is often associated with the science of learning and encompasses a broad range of scientific disciplines from basic neuroscience to cognitive psychology to computer science to social theory It is an interdisciplinary research field that seeks to translate research findings on neural mechanisms of learning to educational practice and policy and to understand the effects of education on the brain Neuroscience research usually focuses only on learning but there is a developing subfield within neuroscience called Mind Brain and Education MBE that attempts to link research with teaching MBE researchers consider how to take advantage of the natural human attention span how to use studies about memory systems to inform lesson planning and how to use research on the role of emotions in learning In neuroscience research progress has been extraordinary including advances in both understanding and technology Scientists from a wide range of disciplines are being attracted to the challenge of understanding the brain In spite of discoveries regarding the structure of the brain we still do not understand how the nervous system allows us to see hear learn remember and plan certain actions Educators and schools around the globe are increasingly relying on the knowledge techniques and programs developed based on a new understanding of how our brains work This knowledge is being applied to the classroom A growing amount of attention is being paid to neuroscience and how the results of empirical research may be used to help individuals learn more effectively In this Research Topic academic scientists researchers and scholars will share their experiences and research results on all aspects of brain based learning and educational neuroscience Furthermore it provides a premier interdisciplinary platform for researchers practitioners and educators to present the latest developments trends and concerns In addition it discusses practical challenges encountered and solutions adopted in the field of Educational Neuroscience The focus of this Research Topic is to bring together academic scientists researchers and scholars to exchange and share their experiences and research findings related to brain based learning and educational neuroscience Researchers practitioners and educators will also be able to present and discuss the newest innovations trends and concerns This will include practical challenges encountered and solutions adopted in Educational Neuroscience as well as in related fields All original and unpublished papers describing conceptual constructive empirical experimental or theoretical work in any area of Brain Based Learning and Educational Neuroscience or studies that explore the intersections between neuroscience psychology and education are highly encouraged Aspects topics and critical issues of interest include but are not limited to neuroscience applications in enhanced learning how students learn mathematics and language personal motivation social

and emotional learning motivation the biology of learning brain functions and information processing and many others

**Knowledge-building** Karl Maton, Susan Hood, Suellen Shay, 2015-10-08 Education and knowledge have never been more important to society yet research is segmented by approach methodology or topic Legitimation Code Theory or LCT extends and integrates insights from Pierre Bourdieu and Basil Bernstein to offer a framework for research and practice that overcomes segmentalism This book shows how LCT can be used to build knowledge about education and society Comprising original papers by an international and multidisciplinary group of scholars Knowledge building offers the first primer in this fast growing approach Through case studies of major research projects Part I provides practical insights into how LCT can be used to build knowledge by enabling dialogue between theory and data in qualitative research bringing together quantitative and qualitative methodologies in mixed methods research relating theory and practice in praxis conducting interdisciplinary studies with systemic functional linguistics Part II offers a series of studies of pressing issues facing knowledge building in education and beyond encompassing diverse subject areas including physics English cultural studies music and design educational sites schooling vocational education and higher education practices of research curriculum pedagogy and assessment both education and informal learning contexts such as museums and masonic lodges Carefully sequenced and interrelated these chapters form a coherent collection that gives a unique insight into one of the most thought provoking and innovative ways of building knowledge about knowledge building in education and society to have emerged this century This book is essential reading for all serious students and scholars of education sociology and linguistics **Oswaal CDS**

**(Combined Defence Services) Chapter-wise & Topic-wise 11 Years' Solved Papers 2014-2024 (II) | English | For 2025 Exam** Oswaal Editorial Board, 2024-09-26 Welcome to the world of Combined Defence Services CDS entrance examination The CDS exam is one of the most sought after competitive exams in India as it paves the way for candidates to join the prestigious Indian Army Navy and Air Force as officers This book CDS Chapter wise Topic wise Solved Papers English aims to facilitate your exam preparation by providing you with a wide range of solved papers from previous years giving you a clear understanding of the exam s complexity and scope Each Chapter is accompanied by Concept Revision Notes detailed explanations to help you grasp the concepts and techniques required to solve the questions effectively Some benefits of studying from Oswaal CDS Solved papers are 100% updated with Fully Solved September 2024 II Paper Extensive Practice with more than 1500 Questions 2 Sample Question Papers Concept Clarity with Concept based Revision notes and Mind Maps Valuable Exam Insights with Tips to crack CDS Exam in the first attempt Examination Analysis with Previous Years Chapter wise Trend Analysis This book has been developed with the highest editorial standards keeping in mind the rigor and meticulousness required of an exam resource catering to CDS The features of the book make it a must have for anyone preparing for CDS 2025 We hope it will help students to supplement their CDS preparation strategy and secure a high rank *Exotic Nuclei (Iasen-2013) - Proceedings Of The First International African Symposium On Exotic Nuclei Yuri*

Erastovich Penionzhkevich, Evgeni A Cherepanov, Dmitri Kamanin, Robert Bark, John Christopher Cornell, 2014-11-20 This book is a collection of talks presented at the First International African Symposium on Exotic Nuclei IASEN 2013 The symposium was held at Cape Town South Africa from 26 December 2013 The IASEN2013 was dedicated to the problems of producing and investigating nuclei far from the line of stability The symposium was organized by two scientific centers iThemba LABS South Africa and the Joint Institute for Nuclear Research Dubna The main goal of the Symposium was to discuss the latest results on the production and study of the properties of the lightest to heaviest nuclei as well as the plans for future joint investigations in the field of exotic nuclei The talks were presented by the leading scientists in the field Among the topics of the symposium were the following production and study of properties of nuclei in extreme states strongly deformed nuclei highly excited and nuclei far from the line of stability as well as nuclei having large angular momenta New results of the investigations are presented in this book In particular the latest results on the synthesis of new superheavy elements are also presented At the Symposium were talks devoted to existing detecting devices and accelerators of exotic nuclei as well as to the future projects for the creation of similar set ups SSC General Intelligence & Reasoning Chapter Wise Note Book | Complete Preparation Guide For CGL/CPO/CHSL/ GD/MTS EduGorilla Prep Experts, EduGorilla Community Pvt. Ltd., 2022-10-01 Best Selling Topic Wise Book for SSC General Intelligence Reasoning Exam with objective type questions as per the latest syllabus Increase your chances of selection by 16X SSC English Notes Book comes with well structured Content Chapter wise Practice Tests for your self evaluation Clear exam with good grades using thoroughly Researched Content by experts 2013 International Conference on Biological, Medical and Chemical Engineering (BMCE2013) E. Purshotaman, 2014-01-06 This proceeding is indeed the result of remarkable cooperation of many distinguished experts who came together to contribute their research work and comprehensive in depth and up to date review articles We are thankful to all the contributing authors and co authors for their valued contribution to this book We would also like to express our gratitude to all the publishers and authors and others for granting us the copyright permissions to use their illustrations 2013 International Conference on Biological Medical and Chemical Engineering BMCE2013 which will be held on December 12 2013 Hong Kong aims to provide a forum for accessing to the most up to date and authoritative knowledge from both Biological Medical and Chemical Engineering The dynamic Hong Kong officially the Hong Kong Special Administrative Region of the People's Republic of China is a largely self governing territory of the People's Republic of China PRC facing the Guangdong Province in the north and the South China Sea to the east west and south Under the one country two systems policy Hong Kong enjoys considerable autonomy in all areas with the exception of foreign affairs and defense which are the responsibility of the PRC Government As part of this arrangement Hong Kong continues to maintain its own currency separate legal political systems and other aspects that concern its way of life many of which are distinct from those of mainland China In relation with the title of this proceeding Biological and Medical



Engineering Developmental biology Environmental Biology Evolutionary Biology Marine Biology Chemistry and Chemical Engineering Fundamentals Chemical engineering educational challenges and development Chemical reaction engineering Chemical engineering equipment design and process design Thermodynamics Catalysis reaction engineering Advances in computational numerical methods Systems biology Integration of Life Sciences Engineering Multi scale and Multi disciplinary Approaches Controlled release of the active ingredient Energy nuclear sciences Energy and environment CFD chemical engineering Food engineering etc has been targeted and included in this proceeding The proceeding is the results of the contribution of a number of experts from the international scientific community in the respective field of research

**Materials Forming and Machining** J. Paulo Davim, J Paulo Davim, 2015-10-20 Materials Forming and Machining Research and Development publishes refereed high quality articles with a special emphasis on research and development in forming materials machining and its applications A large family of manufacturing processes are now involved in material formation with plastic deformation and other techniques commonly used to change the shape of a workpiece Materials forming techniques discussed in the book include extrusion forging rolling drawing sheet metal forming microforming hydroforming thermoforming and incremental forming among others In addition traditional machining non traditional machining abrasive machining hard part machining high speed machining high efficiency machining and micromachining are also explored proving that forming technologies and machining can be applied to a wide variety of materials Presents the family of manufacturing processes involved in material formation Includes traditional and non traditional machining methods Consists of high quality refereed articles by researchers from leading institutions Places special emphasis on research and development in forming materials and machining and its applications

**Validation of Score Meaning for the Next Generation of Assessments** Kadriye Ercikan, James W. Pellegrino, 2017-03-27 Despite developments in research and practice on using examinee response process data in assessment design the use of such data in test validation is rare Validation of Score Meaning in the Next Generation of Assessments Using Response Processes highlights the importance of validity evidence based on response processes and provides guidance to measurement researchers and practitioners in creating and using such evidence as a regular part of the assessment validation process Response processes refer to approaches and behaviors of examinees when they interpret assessment situations and formulate and generate solutions as revealed through verbalizations eye movements response times or computer clicks Such response process data can provide information about the extent to which items and tasks engage examinees in the intended ways With contributions from the top researchers in the field of assessment this volume includes chapters that focus on methodological issues and on applications across multiple contexts of assessment interpretation and use In Part I of this book contributors discuss the framing of validity as an evidence based argument for the interpretation of the meaning of test scores the specifics of different methods of response process data collection and analysis and the use of response process data relative to issues of

validation as highlighted in the joint standards on testing In Part II chapter authors offer examples that illustrate the use of response process data in assessment validation These cases are provided specifically to address issues related to the analysis and interpretation of performance on assessments of complex cognition assessments designed to inform classroom learning and instruction and assessments intended for students with varying cultural and linguistic backgrounds The Open Access version of this book available at <http://www.taylorfrancis.com> has been made available under a Creative Commons Attribution Non Commercial No Derivatives 4.0 license

**Advanced Autonomous Vehicle Design for Severe Environments** V.V. Vantsevich, M.V. Blundell, 2015-10-20 Classical vehicle dynamics which is the basis for manned ground vehicle design has exhausted its potential for providing novel design concepts to a large degree At the same time unmanned ground vehicle UGV dynamics is still in its infancy and is currently being developed using general analytical dynamics principles with very little input from actual vehicle dynamics theory This technical book presents outcomes from the NATO Advanced Study Institute ASI Advanced Autonomous Vehicle Design for Severe Environments held in Coventry UK in July 2014 The ASI provided a platform for world class professionals to meet and discuss leading edge research engineering accomplishments and future trends in manned and unmanned ground vehicle dynamics terrain mobility and energy efficiency The outcomes of this collective effort serve as an analytical foundation for autonomous vehicle design Topics covered include historical aspects pivotal accomplishments and the analysis of future trends in on and off road manned and unmanned vehicle dynamics terramechanics soil dynamic characteristics uncertainties and stochastic characteristics of vehicle environment interaction for agile vehicle dynamics modeling new methods and techniques in on line control and learning for vehicle autonomy fundamentals of agility and severe environments mechatronics and cyber physics issues of agile vehicle dynamics to design for control energy harvesting and cyber security and case studies of agile and inverse vehicle dynamics and vehicle systems design including optimisation of suspension and driveline systems The book targets graduate students who desire to advance further in leading edge vehicle dynamics topics in manned and unmanned ground vehicles PhD students continuing their research work and building advanced curricula in academia and industry and researchers in government agencies and private companies

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