

SUBJECT: PHYSICS
CLASS : XII

MAX. MARKS : 70
DURATION : 3 HRS

General Instruction:

- (i) All questions are compulsory. There are 27 questions in all.
- (ii) This question paper has four sections : Section A, Section B, Section C and Section D.
- (iii) Section A contains five questions of one mark each, Section B contains seven questions of two marks each, Section C contains twelve questions of three marks each and Section D 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 :

$$c = 3 \times 10^8 \text{ m/s}, \quad h = 6.63 \times 10^{-34} \text{ Js}, \quad e = 1.6 \times 10^{-19} \text{ C}, \quad \mu_0 = 4\pi \times 10^{-7} \text{ TmA}^{-1},$$

$$\epsilon_0 = 8.854 \times 10^{-12} \text{ C}^2 \text{N}^{-1} \text{m}^{-2}, \quad m_e = 9.1 \times 10^{-31} \text{ kg}, \quad \frac{1}{4\pi\epsilon_0} = 9 \times 10^9 \text{ Nm}^2 \text{C}^{-2},$$

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

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

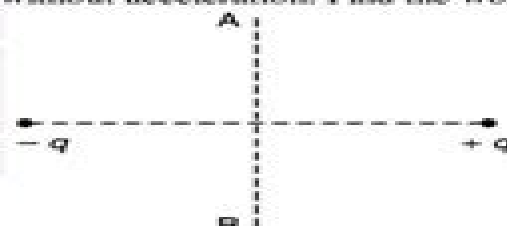
$$\text{Avogadro's number} = 6.023 \times 10^{23} \text{ per gram mole},$$

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

SECTION – A

Questions 1 to 5 carry 1 mark each.

1. Draw a graph to show a variation of resistance of a metal wire as a function of its diameter keeping its length and material constant.
2. A charge 'q' is moved from a point A above a dipole of dipole moment 'p' to a point B below the dipole in equatorial plane without acceleration. Find the work done in the process.



3. Why is the use of AC voltage preferred over DC voltage? Give two reasons.
4. A concave lens of refractive index 1.5 is immersed in a medium of refractive index 1.65. What is nature shown by lens?
5. Name the essential components of a communication system.

SECTION – B

Questions 6 to 12 carry 2 marks each.

6. An α -particle and a proton are accelerated through the same potential difference. Calculate the ratio of linear momenta acquired by the two.

Grade Physics Paper September 2013

Kariem El-Boghdadly, Imran Ahmad



Grade Physics Paper September 2013:

A Collection of Articles on Physics and Others Jin Tong Wang Ph. D, 2022-08-14 This book is about Dr Jin Tong Wang's collected research works included 1 Brillouin Small Angle Right Angle and Backscattering There were achieved three significances a smallest angle scattering in the world at that time It was a world record b discovered from small angle right angle and backscattering results the sound velocity was not a constant with the same phonon mode It actually depends on the phone frequencies At that time no one in this field didn't know how to interpret it Based on the results in the study published a paper in Physical Review B in 1986 2 By the support of Office of Naval Research we created quite a few navel Ferro piezoelectric materials We have done experiments on ferroelectricity piezoelectricity and pyroelectricity measurements Based on the experiment we have some intriguing findings 3 We also work on theories on several topics First of all we proposed a displacive order disorder DOD ferroelectric transition model for para ferroelectric phase transition mechanism The paper was published in the well known European journal Ferroelectrics The DOD phase transition mechanism clarified the long time dispute whether the para ferroelectric phase transition was displacive or order disorder one 4 Derived an Accurate Formulation of Faraday Magnetic Circular Dichroism MCD and Kerr Effect of Light in Ferro electromagnet 5 published several papers in the frontier of quantum mechanics including the red shift of photon frequency in gravitational potential the mechanism of electron photo emission the unification of classical mechanics and quantum mechanics the origin of quantum particle entanglement and quantum wave packet tunneling Some papers have caught attentions by physics communities 5 two patents created by author One is microwave plasma and plasma torch gasifier Another one is plasma torch directly refine metal titanium 6 Also published some papers in Chinese Some were appeared well known Chinese News Paper In some paper the advantages and disadvantages in two social systems were analyzed in physical point of view All these published papers are edited in this collection

Business and Post-disaster Management C. Michael Hall, Sanna Malinen, Rob Vosslander, Russell Wordsworth, 2016-01-29 This book provides a comprehensive examination of the effects of a natural disaster on businesses and organisations and on a range of stakeholders including employees and consumers Research on how communities and businesses respond to disasters can inform policy and mitigate the cost and impacts of future disasters This book discusses how places recover following a disaster and the vital roles that business and other organisations play This volume gives a detailed understanding of business organisational and consumer responses to the Christchurch earthquake sequence of 2010 2011 which caused 185 deaths the loss of over 70 per cent of buildings in the city's CBD major infrastructure damage and severely affected the city's image Despite the devastation the businesses organisations and people of Christchurch are now undergoing significant recovery The book sheds significant new light not only on business and organisation response to disaster but on how business and urban systems may be made more resilient

6 YEAR-WISE Solved Papers - Intelligence Bureau Assistant Central Intelligence Officer Grade-II/ Executive (Tier-I) Exam

Disha Experts,2021-02-04 7 YEAR-WISE Solved Papers - Intelligence Bureau Assistant Central Intelligence Officer Grade-II/ Executive (Tier-I) Exam 2nd Edition Disha Experts,2022-05-11 7 YEAR WISE Intelligence Bureau Assistant Central Intelligence Officer Grade II Executive Tier I Exam contains Past 7 Solved Papers of the IB exam The past Solved papers included are 2010 2011 2012 2013 2015 2017 2021 The detailed solutions are provided immediately after each paper

Handbook on the Economics and Management of Sustainable Oceans Paulo A.L.D. Nunes,Lisa Emelia Svensson,Anil Markandya,2017-02-24 The trans disciplinary thematic areas of oceans management and policy require stocktaking of the state of knowledge on ecosystem services being derived from coastal and marine areas Recently adopted Sustainable Development Goals SDGs especially Goals 14 and 15 explicitly focus on this This Handbook brings together a carefully chosen set of world class contributions from ecology economics and other development science and attempts to provide policy relevant scientific information on ecosystem services from marine and coastal ecosystems nuances of economic valuation relevant legal and sociological response policies for effective management of marine areas for enhanced human well being The contributors focus on the possible nexus of science society and science policy with the objective of informing on decision makers of the governmental agencies business and industry and civil society in general with respect to sustainable management of Oceans *Independent Schools Yearbook 2012-2013* none,2013-06-20 The highly respected book of reference of sought after Independent Schools in membership of the Independent Schools Council s Associations HMC GSA The Society of Heads IAPS ISA and COBIS *Progress in Physics, Vol. 13, No. 4, 2017* Dmitri Rabounski, Florentin Smarandache, Larissa Borissova, Papers on Unmatter Harmonic Quantum Oscillators Vacuum Polarization Scale Invariant Models Superluminal Reference Heuristic Model and so on Angel particle bearing properties of both particles and anti particles which was recently discovered by the Stanford team of experimental physicists is usually associated with Majorana fermions predicted in 1937 by Ettore Majorana In this message we point out that particles bearing properties of both matter and anti matter were as well predicted without any connexion with particle physics but on the basis of pure mathematics namely neutrosophic logic which is a generalization of fuzzy and intuitionistic fuzzy logics in mathematics

Kitchen Creamery Louella Hill,2015-04-14 A wonderful primer for making cheese butter and yogurt in your kitchen featuring delicious recipes to test out your skills From cheesemaking authority and teacher Louella Hill comes an education so timely and inspiring that every cheese lover and cheesemonger from novice to professional will have something to learn Kitchen Creamery starts with the basics think yogurt ricotta and mascarpone before graduating into more complex varieties such as Asiago and Pecorino With dozens of recipes styles and techniques each page is overflowing with essential knowledge for perfecting the ins and outs of the fascinating process that transforms fresh milk into delicious cheese *7 Previous Year-wise Solved Papers for IB ACIO Grade-II/ Executive (Tier-I) Exam with 3 Practice Sets 3rd Edition | Intelligence Bureau Assistant Central Intelligence Officer* Disha Experts, The updated and revised 3rd edition of the book 7 Previous Year wise

Solved Papers for IB ACIO Grade II Executive Tier I Exam with 3 Practice Sets contains Past 7 Solved Papers from 2010 to 2021 of the IB exam The past Solved papers included are 2010 2011 2012 2013 2015 2017 2021 The detailed solutions are provided immediately after each paper 3 Practice sets with Solution are based on the latest syllabus and pattern

Progress in Physics, vol. 4/2017 Dmitri Rabounski ,Florentin Smarandache, Larissa Borissova, The Journal on Advanced Studies in Theoretical and Experimental Physics including Related Themes from Mathematics Skills for Human Development Lesley Joy Powell,Simon McGrath,2019-03-15 Focusing on reimagining the purpose of vocational education and training VET and grounded in the reality of a small cohort of young South Africans and an institution seeking to serve them Skills for Human Development moves beyond the inadequacies of the dominant human capital orthodoxy to present a rich theoretical and practical alternative for VET Offering a human development and capability approach it brings social justice to the forefront of the discussion of VET s purpose at the national institutional and individual levels In doing so this book insists that VET should be about enlarging peoples opportunities to live a flourishing life rather than simply being about narrow employability and productivity It argues that human development approaches while acknowledging the importance of work in its broadest sense offer a better way of bringing together VET and development than the current human capital inspired orthodoxy Offering a transformative vision for skills development this book Considers the potential contribution skills development could make to broader human development as well as to economic development Points to an alternative approach to the current and flawed deficit assumptions of VET learners Presents for the first time an alternative evaluative frame for judging VET purpose and quality Presents a timely account of current vocational and education training that is high on the agenda of international policymakers Taking a broad perspective Skills for Human Development presents a comprehensive and unique framework which bridges theory policy and practice to give VET institutions a new way of thinking about their practice and VET policymakers a new way of engaging with global messages of sustainable human development It is a vital resource for those working on the human development and skills approach in multiple disciplines and offers a grounding framework for international policymakers interested in this growing area **Primary FRCA: 450 MTFs and SBAs** Kariem El-Boghdadly,Imran Ahmad,2014-01-06 Reflecting the new exam format Primary FRCA 450 MTFs and SBAs features a wealth of practice questions and provides the definitive revision guide to maximise chances of exam success **Large-Scale Scientific Computing** Ivan Lirkov,Svetozar Margenov,2020-02-13 This book constitutes revised papers from the 12th International Conference on Large Scale Scientific Computing LSSC 2019 held in Sozopol Bulgaria in June 2019 The 70 papers presented in this volume were carefully reviewed and selected from 81 submissions The book also contains two invited talks The papers were organized in topical sections named as follows control and optimization of dynamical systems meshfree and particle methods fractional diffusion problems numerical methods algorithms and applications pore scale flow and transport simulation tensors based algorithms and structures in optimization and

applications HPC and big data algorithms and applications large scale models numerical methods parallel computations and applications monte carlo algorithms innovative applications in conjunctions with other methods application of metaheuristics to large scale problems large scale machine learning multiscale algorithms and performance guarantees and contributed papers

Snakes on a spaceship—An overview of python in space physics Angeline G. Burrell, John Coxon, K.-Michael Aye, Leslie Lamarche, Sophie A Murray, 2023-07-20

Teaching and Learning of Energy in K - 12 Education Robert F. Chen, Arthur Eisenkraft, David Fortus, Joseph Krajcik, Knut Neumann, Jeffrey Nordine, Allison Scheff, 2014-04-09 This volume presents current thoughts research and findings that were presented at a summit focusing on energy as a cross cutting concept in education involving scientists science education researchers and science educators from across the world The chapters cover four key questions what should students know about energy what can we learn from research on teaching and learning about energy what are the challenges we are currently facing in teaching students this knowledge and what needs be done to meet these challenges in the future Energy is one of the most important ideas in all of science and it is useful for predicting and explaining phenomena within every scientific discipline The challenge for teachers is to respond to recent policies requiring them to teach not only about energy as a disciplinary idea but also about energy as an analytical framework that cuts across disciplines Teaching energy as a crosscutting concept can equip a new generation of scientists and engineers to think about the latest cross disciplinary problems and it requires a new approach to the idea of energy This book examines the latest challenges of K 12 teaching about energy including how a comprehensive understanding of energy can be developed The authors present innovative strategies for learning and teaching about energy revealing overlapping and diverging views from scientists and science educators The reader will discover investigations into the learning progression of energy how understanding of energy can be examined and proposals for future directions for work in this arena Science teachers and educators science education researchers and scientists themselves will all find the discussions and research presented in this book engaging and informative

MPPSC General Aptitude Test Paper 2 Guide for 2021 Exam Arihant Experts, 2021-02-11 1 MPPSC General Aptitude Test Paper II is designed for state civil services 2 The book is divided into 4 main subject as per the latest syllabus 3 It gives the complete coverage on the theory 4 Solved Papers 2014 2019 are provided for practice 5 5 practice sets are given for the quick revision of the chapters Madhya Pradesh Public Service Commission publicly known as MPPSC is a state government agency that opens a recruitment window every year for Indian nationals holding bachelor s degree for the posts of State Services The recruitment exam is conducted in three phases namely Preliminary Mains and Interview Study Package MPPSC General Aptitude Test Paper II has been re designed carefully to provide the best study resources to prepare candidates for the second paper of MPPSC State Services Preliminary Examination 2021 The book divides the whole syllabus into chapters under 4 main subjects as prescribed by the board It also includes the Solved Papers from 2019 to 2014 to bring the better understanding of the exam pattern and 5

Crack Sets have been arranged at the end of the book to allow aspirants to analyse their preparation level A highly useful study guide based on the latest exam pattern this study package is a perfect book to follow for scoring well in the upcoming MPPSC General Aptitude Test Paper II TOC Comprehension Interpersonal Skills Communication Skills Logical Reasoning Analytical Ability Decision Making Problem Solving General Mental Ability Basic Numeracy Hindi Bodhgamyata Crack Sets 1 5 *Educart NEET 37 Years Chemistry Solved Papers (PYQs) Chapterwise and Topicwise for NEET 2025 Exam* Educart,Dr.

Rakshita Singh,2024-07-25 *Educart NEET 37 Years Biology Solved Papers (PYQs) Chapterwise and Topicwise for NEET 2025 Exam* Educart,Dr. Rakshita Singh,2024-07-25 **Representing Translation** Dror Abend-David,2019-02-21 In an increasingly global and multilingual society translators have transitioned from unobtrusive stagehands to key intercultural mediators a development that is reflected in contemporary media From Coppola s *Lost in Translation* to television s *House M D* and from live performance to social media translation is rendered as not only utilitarian but also performative and communicative In examining translation as a captivating theme in film television commercials and online content this multinational collection engages with the problems and limitations faced by translators as well as the ethical and philosophical aspects of translation and Translation Studies Contributors examine the role of the translator as protagonist agent negotiator and double agent translation in global communication the presentation of visual texts multilingualism in contemporary media and the role of foreign languages in advertisements Translation and translators are shown as inseparable parts of a contemporary life that is increasingly multilingual multiethnic multinational and socially diverse

Atlas of Knowledge Katy Borner,2015-03-20 The power of mapping principles for visualizing knowledge illustrated by many stunning large scale full color maps Maps of physical spaces locate us in the world and help us navigate unfamiliar routes Maps of topical spaces help us visualize the extent and structure of our collective knowledge they reveal bursts of activity pathways of ideas and borders that beg to be crossed This book from the author of *Atlas of Science* describes the power of topical maps providing readers with principles for visualizing knowledge and offering as examples forty large scale and more than 100 small scale full color maps Today data literacy is becoming as important as language literacy Well designed visualizations can rescue us from a sea of data helping us to make sense of information connect ideas and make better decisions in real time In *Atlas of Knowledge* leading visualization expert Katy B rner makes the case for a systems science approach to science and technology studies and explains different types and levels of analysis Drawing on fifteen years of teaching and tool development she introduces a theoretical framework meant to guide readers through user and task analysis data preparation analysis and visualization visualization deployment and the interpretation of science maps To exemplify the framework the Atlas features striking and enlightening new maps from the popular *Places Spaces Mapping Science* exhibit that range from Key Events in the Development of the Video Tape Recorder to Mobile Landscapes Location Data from Cell Phones for Urban Analysis to Literary Empires Mapping Temporal and Spatial Settings of Victorian Poetry to

Seeing Standards A Visualization of the Metadata Universe She also discusses the possible effect of science maps on the practice of science

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