

SOLUTIONS TO IIT-JEE 2007 (PAPER-2)

PHYSICS

PART I

SECTION - I

Straight Objective Type

This section contains 9 multiple choice questions numbered 1 to 9. Each question has 4 choices (A), (B), (C) and (D), out of which ONLY ONE is correct.

1. In the experiment to determine the speed of sound using a resonance column,
 (A) prongs of the tuning fork are kept in a vertical plane
 (B) prongs of the tuning fork are kept in a horizontal plane
 (C) in one of the two resonances observed, the length of the resonating air column is close to the wavelength of sound in air
 (D) in one of the two resonances observed, the length of the resonating air column is close to half of the wavelength of sound in air.

Sol : (A)

2. A student performs an experiment to determine the Young's modulus of a wire, exactly 2m long, by Searle's method. In a particular reading, the student measures the extension in the length of the wire to be 0.8 mm with an uncertainty of ± 0.05 mm at a load of exactly 1.0 kg. The student also measures the diameter of the wire to be 0.4 mm with an uncertainty of ± 0.01 mm. Take $g = 9.8 \text{ m/s}^2$ (exact). The Young's modulus obtained from the reading is

- (A) $(2.0 \pm 0.3) \times 10^{11} \text{ N/m}^2$ (B) $(2.0 \pm 0.2) \times 10^{11} \text{ N/m}^2$
 (C) $(2.0 \pm 0.1) \times 10^{11} \text{ N/m}^2$ (D) $(2.0 \pm 0.05) \times 10^{11} \text{ N/m}^2$

Sol: $Y = \frac{FL}{Al} = \frac{4FL}{\pi d^2 l}$ Where L = length of the wire

l = elongation of the wire
 d = diameter of the wire

$$\Rightarrow \frac{\Delta Y}{Y} = 2 \frac{\Delta d}{d} + \frac{\Delta l}{l}$$

$$= 2 \left(\frac{0.01}{0.4} \right) + \frac{0.05}{0.8} = \frac{9}{40}$$

$$\Rightarrow \Delta Y = \frac{9}{40} \times Y = \frac{9}{40} \times 2 \times 10^{11} = 0.2 \times 10^{11} \text{ N/m}^2$$

$\therefore$ (B)

3. A particle moves in the X-Y plane under the influence of a force such that its linear momentum is $\vec{p}(t) = A [\hat{i} \cos(kt) - \hat{j} \sin(kt)]$, where A and k are constants. The angle between the force and the momentum is

- (A) 0° (B) 30° (C) 45° (D) 90°

Zim Mathematic Question Paper 2007

Sabine Zange



Zim Mathematic Question Paper 2007:

CDS 14 Years Mathematics, English & General Knowledge Topic-wise Solved Papers (2007 - 2020) - 4th Edition Disha Experts, 2020-06-20 **TARGET MH-CET (MBA / MMS) 2022 - Past Papers (2007 - 2021) + 5 Mock Tests 13th Edition** Disha Experts, The Thoroughly Updated 13th edition of Target MH CET 2022 book covers Previous Solved Papers 2007 to 2021 and 5 Mock tests as per latest pattern The solution to each and every question has been provided The Past Papers will guide you in terms of understanding the Pattern Types of Questions their Level of Difficulty Thus in all there are 14 Past Papers as the MH CET paper was not held in 2013 5 Mock tests designed exactly as per the pattern of the 2021 MH CET exam Each Mock Test contains 200 questions on the 3 sections Section I Logical Abstract Reasoning 100 Section II Quantitative Aptitude 50 Section III Verbal Ability Reading Comprehension 50 The detailed solution to the questions are provided immediately after the tests A total of 3700 MCQs with explanation *Topic-wise 18 Previous Year NDA/ NA Mathematics, English & General Knowledge Solved Papers (2006 - 2023) - set of 2 Books - 8th Edition | 35 Authentic Papers | 9450 MCQs* , The 8th updated edition of the Combo set of 2 Books Topic wise 18 Previous Year NDA NA Mathematics English and General Knowledge Solved Papers 2006 2023 contains 35 Question papers of held from April 2006 to September 2023 Book 1 General Ability Test is divided into 2 parts English and General Knowledge which are further distributed into 33 Topics English is divided into 9 topics whereas General Knowledge is divided into 7 Units Physics Chemistry Biology History Polity Geography and General Awareness which are further divided into 24 topics Book 2 Mathematics is divided into 23 Topics The Combo consists of more than 9450 MCQs 4200 in Mathematics 1750 in English 3500 in GK The strength of the book lies in the originality of its question papers and Errorless Solutions Detailed step by step solutions to questions to provide 100% concept clarity to the students **19 Previous Year NDA/ NA Mathematics, English & General Knowledge Topic-wise Solved Papers (2006 - 2023) - set of 2 Books - 9th Edition | 35 Authentic Papers | 9450 MCQs** Disha Experts, 2024-10-22 The 9th updated edition of the Combo set of 2 Books 19 Previous Year NDA NA English General Knowledge Mathematics Topic wise Solved Papers 2006 2024 contains 37 Question papers of Mathematics held from April 2006 to September 2024 The complete syllabus of NDA NA is divided into 56 Topics Mathematics 24 Topics English 8 Topics General Knowledge 24 Topics The Book consists of more than 9990 MCQs Mathematics 4440 MCQs English 1850 MCQs General Knowledge 3700 MCQs distributed among 56 Topics The strength of the book lies in the originality of its question papers and Errorless Solutions The Book provides detailed step by step solutions to provide 100% concept clarity to the students *Mapping research and innovation in the Republic of Zimbabwe* Lemarchand, Guillermo A., Schneegans, Susan, 2014-08-11 *Education and Development in Zimbabwe* Edward Shizha, Michael T. Kariwo, 2012-01-01 The book represents a contribution to policy formulation and design in an increasingly knowledge economy in Zimbabwe It challenges scholars to think about the role of education its funding and the egalitarian approach to widening access to education The

nexus between education democracy and policy change is a complex one The book provides an illuminating account of the constantly evolving notions of national identity language and citizenship from the Zimbabwean experience The book discusses educational successes and challenges by examining the ideological effects of social political and economic considerations on Zimbabwe s colonial and postcolonial education Currently literature on current educational challenges in Zimbabwe is lacking and there is very little published material on these ideological effects on educational development in Zimbabwe This book is likely to be one of the first on the impact of social political and economic meltdown on education The book is targeted at local and international academics and scholars of history of education and comparative education scholars of international education and development undergraduate and graduate students and professors who are interested in educational development in Africa particularly Zimbabwe Notwithstanding the book is a valuable resource to policy makers educational administrators and researchers and the wider community Shizha and Kariwo s book is an important and illuminating addition on the effects of social political and economic trajectories on education and development in Zimbabwe It critically analyses the crucial specifics of the Zimbabwean situation by providing an in depth discourse on education at this historical juncture The book offers new insights that may be useful for an understanding of not only the Zimbabwean case but also education in other African countries Rosemary Gordon Senior Lecturer in Educational Foundations University of Zimbabwe Ranging in temporal scope from the colonial era and its elitist legacy through the golden era of populist universal elementary education to the disarray of contemporary socioeconomic crisis covering elementary through higher education and touching thematically on everything from the pernicious effects of social adjustment programmes through the local deprofessionalization of teaching this text provides a comprehensive wide ranging and yet carefully detailed account of education in Zimbabwe This engagingly written portrayal will prove illuminating not only to readers interested in Zimbabwe s education specifically but more widely to all who are interested in how the sociopolitical shapes education how ideology policy international pressures economic factors and shifts in values collectively forge the historical and contemporary character of a country s education Handel Kashope Wright Professor of Education University of British Columbia

Topic-wise (set of 3 Books) 17 Years CDS Mathematics, English & General Knowledge Previous Year Solved Papers (2007 - 2023) Phase I & II - 2nd Edition | Combined Defence Services PYQs , Book 1 CDS CDS OTA 16 Years General Knowledge Topic wise Solved Papers 2007 2022 3rd Edition with detailed Solutions Book 2 CDS CDS OTA 16 Years English Topic wise Solved Papers 2007 2022 3rd Edition with detailed Solutions Book 3 CDS 16 Years Mathematics Topic wise Solved Papers 2007 2022 3rd Edition with detailed Solutions *Engineering Design and Mathematical Modelling* Nnamdi Nwulu, Mammo Muchie, 2020-12-17 *Engineering Design and Mathematical Modelling* Concepts and Applications consists of chapters that span the Engineering design and mathematical modelling domains Engineering design and mathematical modelling are key tools techniques in the Science Technology and Innovation spheres Whilst engineering

design is concerned with the creation of functional innovative products and processes mathematical modelling seeks to utilize mathematical principles and concepts to describe and control real world phenomena Both of these can be useful tools for spurring and hastening progress in developing countries They are also areas where Africa needs to skill up in order to build a technological base The chapters in this book cover the relevant research trends in the fields of both engineering design and mathematical modelling This book was originally published as a special issue of the African Journal of Science Technology Innovation and Development *Math Educ*, 2007 Contains abstracts in the field of mathematics education extracted from documents worldwide The Routledge Handbook of Disability in Southern Africa Tsitsi Chataika, 2018-07-27 This comprehensive ground breaking southern African centred collection spans the breadth of disability research and practice Reputable and emerging scholars together with disability advocates adopt a critical and interdisciplinary stance to prove challenge and shift commonly held social understanding of disability in traditional discourses frontiers and practices in prominent areas such as inter national development disability studies education culture health religion gender sports tourism ICT theatre media housing and legislation This handbook provides a body of interdisciplinary analyses suitable for the development of disability studies in southern Africa Through drawing upon and introducing resources from several disciplines theoretical perspectives and personal narratives from disability activists it reflects on disability and sustainable development in southern Africa It also addresses a clear need to bring together interdisciplinary perspectives and narratives on disability and sustainable development in ways that do not undermine disability politics advanced by disabled people across the world The handbook further acknowledges and builds upon the huge body of literature that understands the social cultural educational psychological economic historical and political facets of the exclusion of disabled people The handbook covers the following broad themes Disability inclusion ICT and sustainable development Access to education from early childhood development up to higher education Disability employment entrepreneurship and community based rehabilitation Religion gender and parenthood Tourism sports and accessibility Compelling narratives from disability activists on societal attitudes toward disability media advocacy accessible housing and social exclusion Thus this much awaited handbook provides students academics practitioners development partners policy makers and activists with an authoritative framework for critical thinking and debates that inform policy and practice in incomparable ways with the view to promoting inclusive and sustainable development *Tropical and Idempotent Mathematics* Grigorii Lazarevich Litvinov, S. N. Sergeev, 2009 This volume is a collection of papers from the International Conference on Tropical and Idempotent Mathematics held in Moscow Russia in August 2007 This is a relatively new branch of mathematical sciences that has been rapidly developing and gaining popularity over the last decade Tropical mathematics can be viewed as a result of the Maslov dequantization applied to traditional mathematics over fields Importantly applications in econophysics and statistical mechanics lead to an explanation of the nature of financial crises Another original

application provides an analysis of instabilities in electrical power networks Idempotent analysis tropical algebra and tropical geometry are the building blocks of the subject Contributions to idempotent analysis are focused on the Hamilton Jacobi semigroup the max plus finite element method and on the representations of eigenfunctions of idempotent linear operators Tropical algebras consisting of plurisubharmonic functions and their germs are examined The volume also contains important surveys and research papers on tropical linear algebra and tropical convex geometry Mathematical Reviews ,2007

Parliamentary Debates (Hansard). Great Britain. Parliament. House of Commons,2006 Unsafe Thinking Jonah Sachs,2018-04-24 A Financial Times Book of the Month An enchanting book about how to question the conventional challenge the status quo and unlock the creative solutions right under your nose Adam Grant New York Times bestselling author of Originals Give and Take and Option B with Sheryl Sandberg Unsafe Thinking delivers an array of fresh insights on creativity motivation and staying in flow Packed with powerful case studies it will propel you out of your rut and onto a path of better sharper thinking Daniel H Pink author of When and To Sell Is Human How can you challenge and change yourself when you need it most We re creatures of habit programmed by evolution to favor the safe and familiar especially when the stakes are high This bias no longer serves us in a world of constant change In fact today safe thinking has become extremely dangerous Through stories of trailblazers in business health education and activism and leveraging decades of research into creativity and performance Jonah Sachs reveals a path to higher performance and creativity for anyone ready to step out of their comfort zone He introduces troublemakers willing to challenge corporate culture like the executive who convinced CVS to drop its multibillion dollar tobacco business She now leads the pharmacy giant Readers will get firsthand accounts of breaking from the status quo from a Nobel prize winning doctor who nearly got himself thrown out medicine a two time NBA championship coach who brought joy back to his team by tuning down the focus on competition a CEO who rebuilt her reputation and life from the ashes from one of the biggest flops in internet history and a Colombian mayor who started an incredibly successful career of political reform by mooning an angry crowd Unsafe Thinking is full of counter intuitive insights that will challenge you to rethink how you work You ll learn Why your area of deep expertise is often where you ll find your biggest blind spots Why anxiety can be fuel for creativity When to trust intuition and when to challenge it How collaborating only with those that share your values stunts your creativity How to build an organization that embraces intelligent risk An inspiring and accessible read Unsafe Thinking has the power to change both the way you approach your work and your life **Information and Communications Technology in STEM Education** Umesh

Ramnarain,Mdutshekela Ndlovu,2023-07-21 This timely book presents the latest scholarly research on the integration of Information Communications Technology ICT for enhanced STEM education in African schools and universities Featuring critical discussion and illustration of key data led arguments this volume gives a comprehensive picture of the breadth complexity and diversity of issues present in different African countries It highlights a diverse range of topics such as

approaches to ICT integration the use of digital technologies to support inquiry based learning teacher development and contextual issues in ICT integration for STEM education Chapters feature contributions and shared experiences from prominent science educators and researchers from across African regions and demonstrate findings and reflections on emerging trends pedagogical innovations and research informed practices on ICT integration in STEM education Offering cutting edge research on STEM and digital education in Africa the book will appeal to researchers postgraduate students and scholars in the fields of STEM education ICT education digital education and pedagogy Pratiyogita Darpan ,2007-08 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 *Cracking the code* UNESCO,2017-09-04 This report aims to crack the code by deciphering the factors that hinder and facilitate girls and women s participation achievement and continuation in science technology engineering and mathematics STEM education and in particular what the education sector can do to promote girls and women s interest in and engagement with STEM education and ultimately STEM careers *Resources in Education* ,1999 **The Physical Geography of the Mediterranean** Jamie C. Woodward,2009-05-07 This volume explores the climates landscapes ecosystems and hazards that comprise the Mediterranean world It traces the development of the Mediterranean landscape over very long timescales and examines modern processes and key environmental issues in a wide range of settings The Mediterranean is the only region on Earth where three continents meet and this interaction has produced a very distinctive Physical Geography This book examines the landscapes and processes at the margins of these continents and the distinctive marine environment between them Catastrophic earthquakes explosive volcanic eruptions and devastating storms and floods are intimately bound up within the history and mythology of the Mediterranean world This is a key region for the study of natural hazards because it offers unrivalled access to long records of hazard occurrence and impact through documentary archaeological and geological archives The Mediterranean is also a biodiversity hotspot it has been a meeting place for plants animals and humans from three continents throughout much of its history The Quaternary records of these interactions are more varied and better preserved than in any other part of the world These records have provided important new insights into the tempo of climate landscape and ecosystem change in the Mediterranean region and beyond The region is unique because of the very early and widespread impact of humans in landscape and ecosystem change and the richness of the archaeological and geological archives that chronicle this impact This book examines this history and these interactions and places current environmental issues in long term context Contributors Ramadan Husain Abu Zied Harriet Allen Jacques

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Babette Hoogakker Philip Hughes Jos Lelieveld John Lewin Francisco Lloret Francisco Lopez Bermudez Mark Macklin Jean
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Wainwright Structural Geology Bruce E. Hobbs, Alison Ord, 2014-11-21 Structural Geology is a groundbreaking reference
that introduces you to the concepts of nonlinear solid mechanics and non equilibrium thermodynamics in metamorphic
geology offering a fresh perspective on rock structure and its potential for new interpretations of geological evolution This
book stands alone in unifying deformation and metamorphism and the development of the mineralogical fabrics and the
structures that we see in the field This reflects the thermodynamics of systems not at equilibrium within the framework of
modern nonlinear solid mechanics The thermodynamic approach enables the various mechanical thermal hydrological and
chemical processes to be rigorously coupled through the second law of thermodynamics invariably leading to nonlinear
behavior The book also differs from others in emphasizing the implications of this nonlinear behavior with respect to the
development of the diverse complex even fractal range of structures in deformed metamorphic rocks Building on the
fundamentals of structural geology by discussing the nonlinear processes that operate during the deformation and
metamorphism of rocks in the Earth s crust the book s concepts help geoscientists and graduate level students understand
how these processes control or influence the structures and metamorphic fabrics providing applications in hydrocarbon
exploration ore mineral exploration and architectural engineering Authored by two of the world s foremost experts in
structural geology representing more than 70 years of experience in research and instruction Nearly 300 figures illustrations
working examples and photographs reinforce key concepts and underscore major advances in structural geology

Zim Mathematic Question Paper 2007 Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the ability of words has be evident than ever. They have the capability to inspire, provoke, and ignite change. Such may be the essence of the book **Zim Mathematic Question Paper 2007**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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