

দিনাজপুর বোর্ড

কম্পিউটারি অসীক্ষা

পদার্থবিজ্ঞান

বিভাগ পত্র

[২০২৩ সালের বিশেষণ অনুষ্ঠান]

সময়—২৫ মিনিট

পূর্ণমান—২৫

বিষয় কোড : 1 7 5

সেট : গ

দ্রষ্টব্য : সবকোরকৃত কম্পিউটারি অসীক্ষার উত্তরপত্রে প্রত্যেক প্রশ্নের সঠিক উত্তরের বিপরীতে প্রদত্ত কবিন্দিত কৃতসমূহ হতে সঠিক/সর্বোত্তম উত্তরের কৃতটি ক্রম পড়েই ক্রমে দ্বারা সম্পূর্ণ কৃতটি ক্র : প্রতিটি প্রশ্নের মান ১ : সকল প্রশ্নের উত্তর দিতে হবে ।

প্রশ্নপত্রে কোনো প্রকার দাগ/চিহ্ন দেয়া হবে না ।

১. দুটি অ্যাসেও উত্তরকে সুসংগত কলা হবে যখন নিম্নলিখিত অ্যাসেও ক্রমিক—

(ক) উত্তর ও দশা একই

☒ তরঙ্গদৈর্ঘ্য ও দশা পার্থক্য একই

(খ) উত্তর ও অসমান ও তরঙ্গদৈর্ঘ্য একই

(গ) তরঙ্গদৈর্ঘ্য ও দশা পার্থক্য উভয়ই অসমান

২. তরঙ্গের মাত্রিক সমতার একক হলো—

(ক) ক্যালরি/গ্রাম

☒ জুল/ক্যালরি

(খ) ক্যালরি/জুল

(গ) জুল-ক্যালরি

৩. পালকোনেমিটারের জিতের নিচে প্রদর্শিত তথ্য অনুযায়ী হবে, যখন—এর সাথে সংযুক্ত সার্কিট (S) এর মান—

☒ $S = 0\Omega$ (খ) $S = \infty\Omega$ (গ) $S = 0.1\Omega$ (ঘ) $S = 1\Omega$

৪. একটি তরঙ্গের দুটি বিপরীত দশা পার্থক্য λ ; তাহলে এর দশা পার্থক্য কত?

☒ $\frac{\lambda}{2}$ (খ) $\frac{2}{\lambda}$ (গ) λ (ঘ) $\frac{2\pi^2}{\lambda}$

৫. নিচের কোনটি চার্জ প্রবাহ হারের একক?

(ক) কুলম্ব

(খ) ভোল্ট

☒ অ্যাম্পিয়ার

(ঘ) নিউটন

৬. এম্পিয়ার এসমূহ একক হলো—

☒ JK-1

(খ) JK

(গ) Js-1

(ঘ) J/°C

৭. নিচের কোনটি ভোল্টেজের সঠিক বৈশিষ্ট্য ক্রম?

☒ $+1V \rightarrow \text{---} \rightarrow -1V$ (খ) $-1V \rightarrow \text{---} \rightarrow +2V$ (গ) $-1V \rightarrow \text{---} \rightarrow 0V$ (ঘ) $-2V \rightarrow \text{---} \rightarrow +1V$

৮. কোনটি তেজস্ক্রিয় ক্ষেত্র বিস্তারিত হতে পারে না?

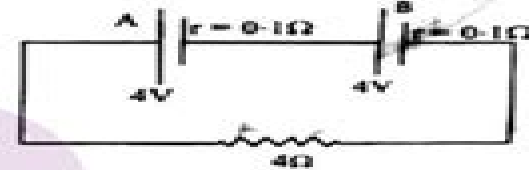
☒ রেডিয়

(খ) ইলেকট্রন

(গ) নিউট্রিনো

(ঘ) বিনিময় নিউক্লিয়ন

উদাহরণের অ্যাসেও ৯ ও ১০-এ প্রশ্নের উত্তর দাও।



৯. বর্তনীতে তড়িৎ প্রবাহের পরিমাণ কত?

☒ 1.904 A

(খ) 0.987 A

(গ) 0.493 A

(ঘ) 0.110 A

১০. যদি বর্তনীর 'A' কোষটিকে 'B' কোষের সাথে বিপরীতভাবে সংযোগ দেয়া হয় তাহলে কোন ঘটনাটি সঠিক হবে?

বর্তনীর মোট তড়িৎপ্রবাহ ক্রম—

(ক) হ্রাসবে

(খ) কমবে

(গ) অপরিবর্তিত থাকবে

☒ সূত্র হবে

১১. কোষের ভোল্টেজ হলো—

(ক) $P = \frac{h\lambda}{c}$ ☒ $P = \frac{hc}{\lambda}$ (খ) $P = \frac{hc}{\lambda}$ (ঘ) $P = \frac{hc}{\lambda}$

১২. $(101001)_2$ এর ডেসিমেল মান কত?

(ক) $(42)_{10}$ ☒ $(41)_{10}$ (খ) $(40)_{10}$ (ঘ) $(32)_{10}$

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**Naseem Akhtar
Qureshi, Harshavardhan
Sampath, Samrat Singh Bhandari**

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SSC Reasoning (Verbal & Non-Verbal) Guide for CGL/ CHSL/ MTS/ GD Constable/ Stenographer Disha

Experts,2017-02-08 The book SSC Reasoning Verbal Non Verbal Guide for CGL CHSL MTS GD Constable Stenographer has been designed considering the latest patterns of the SSC exams The book has 2 parts Verbal and Non Verbal Reasoning The Verbal part contains 22 chapters whereas the Non Verbal part contains 7 chapters Further a Question Bank of past SSC Questions and 8 Practice Sets have been provided for the SSC exams Each chapter of this book contains theory with Solved Examples The chapter s Exercise part has been sub divided into four sections on the basis of the difficulty level of the questions i e Concept Applicator Easy Concept Builder Easy Moderate Concept Cracker Moderate Concept Deviator Difficult The exercise in the book contains previous year s questions of the various exams At the end of the chapters a Miscellaneous Question Bank is provided It contains around 500 MILESTONE SSC past Questions that will provide enhanced practice much needed to crack this section The book also provides 8 Speed Practice Sets along with detailed solutions will help the aspirants to understand the new pattern of the examination as well as to understand the importance of time management

Advances in Immunology ,2016-05-25 Advances in Immunology a long established and highly respected publication presents current developments as well as comprehensive reviews in immunology Articles address the wide range of topics that comprise immunology including molecular and cellular activation mechanisms phylogeny and molecular evolution and clinical modalities Edited and authored by the foremost scientists in the field each volume provides up to date information and directions for the future Contains contributions from leading authorities Includes a wide range of topics that comprise immunology including molecular and cellular activation mechanisms phylogeny and molecular evolution and clinical modalities Informs and updates on all the latest developments in the field of immunology

MEDINFO 2019: Health and Wellbeing e-Networks for All L. Ohno-Machado,B. Séroussi,2019-11-12 Combining and integrating cross institutional data remains a challenge for both researchers and those involved in patient care Patient generated data can contribute precious information to healthcare professionals by enabling monitoring under normal life conditions and also helping patients play a more active role in their own care This book presents the proceedings of MEDINFO 2019 the 17th World Congress on Medical and Health Informatics held in Lyon France from 25 to 30 August 2019 The theme of this year s conference was Health and Wellbeing E Networks for All stressing the increasing importance of networks in healthcare on the one hand and the patient centered perspective on the other Over 1100 manuscripts were submitted to the conference and after a thorough review process by at least three reviewers and assessment by a scientific program committee member 285 papers and 296 posters were accepted together with 47 podium abstracts 7 demonstrations 45 panels 21 workshops and 9 tutorials All accepted paper and poster contributions are included in these proceedings The papers are grouped under four thematic tracks interpreting health and biomedical data supporting care delivery enabling precision medicine and public health and

the human element in medical informatics The posters are divided into the same four groups The book presents an overview of state of the art informatics projects from multiple regions of the world it will be of interest to anyone working in the field of medical informatics **Advances in Energy Science and Equipment Engineering II Volume 1** Shiquan

Zhou,Aragona Patty,Shiming Chen,2017-09-19 The 2016 2nd International Conference on Energy Equipment Science and Engineering ICEESE 2016 will be held on November 12 14 2016 in Guangzhou China ICEESE 2016 is to bring together innovative academics and industrial experts in the field of energy equipment science and engineering to a common forum The primary goal of the conference is to promote research and developmental activities in energy equipment science and engineering and another goal is to promote scientific information interchange between researchers developers engineers students and practitioners working all around the world The conference will be held every year to make it an ideal platform for people to share views and experiences in energy equipment science and engineering and related areas Progress

Toward Implementation of the 2013 Decadal Survey for Solar and Space Physics National Academies of Sciences, Engineering, and Medicine,Division on Engineering and Physical Sciences,Space Studies Board,Committee on the Review of Progress Toward Implementing the Decadal Survey " Solar and Space Physics: A Science for a Technological Society,2020-06-29 The 2013 report Solar and Space Physics A Science for a Technological Society outlined a program of basic and applied research for the period 2013 2022 This publication describes the most significant scientific discoveries technical advances and relevant programmatic changes in solar and space physics since the publication of that decadal survey Progress Toward Implementation of the 2013 Decadal Survey for Solar and Space Physics assesses the degree to which the programs of the National Science Foundation and the National Aeronautics and Space Administration address the strategies goals and priorities outlined in the 2013 decadal survey and the progress that has been made in meeting those goals This report additionally considers steps to enhance career opportunities in solar and space physics and recommends actions that should be undertaken to prepare for the next decadal survey Thomas' Hematopoietic Cell Transplantation, 2

Volume Set Stephen J. Forman,Robert S. Negrin,Joseph H. Antin,Frederick R. Appelbaum,2016-12-27 Fully revised for the fifth edition this outstanding reference on bone marrow transplantation is an essential field leading resource Extensive coverage of the field from the scientific basis for stem cell transplantation to the future direction of research Combines the knowledge and expertise of over 170 international specialists across 106 chapters Includes new chapters addressing basic science experiments in stem cell biology immunology and tolerance Contains expanded content on the benefits and challenges of transplantation and analysis of the impact of new therapies to help clinical decision making Includes a fully searchable Wiley Digital Edition with downloadable figures linked references and more References for this new edition are online only accessible via the Wiley Digital Edition code printed inside the front cover or at www.wiley.com/go/forman hematopoietic Research in Mathematics Education in Australasia 2012-2015 Katie Makar,Shelley Dole,Jana

Visnovska, Merrilyn Goos, Anne Bennison, Kym Fry, 2016-06-02 With the ninth edition of the four yearly review of mathematics education research in Australasia the Mathematics Education Research Group of Australasia MERGA discusses the Australasian research in mathematics education in the four years from 2012 2015 This review aims to critically promote quality research and focus on the building of research capacity in Australasia

Casarett & Doull's Toxicology: The Basic Science of Poisons, 9th Edition Curtis D. Klaassen, 2018-11-23 Toxicology's gold standard text completely updated to reflect the latest breakthroughs and discoveries A Doody's Core Title for 2024 2021 Casarett Doull's Toxicology The Basic Science of Poisons Ninth Edition equips you with an unsurpassed understanding of modern toxicology including the key principles concepts mechanisms chemical specific toxicity and modes of thought that are the foundation of the discipline This trusted classic not only delivers a comprehensive review of the essential components of toxicology it offers the most up to date revealing and in depth look at the systemic responses of toxic substance available anywhere Casarett Doull's Toxicology The Basic Science of Poisons Ninth Edition is logically divided into seven sections General Principles of Toxicology Disposition of Toxicants Non Organ Directed Toxicity Target Organ Toxicity Toxic Agents Environmental Toxicology Applications of Toxicology Many new contributors capture the progress made in toxicology over the past few years This edition is markedly updated from the previous edition with more than one third of the chapters authored by scientists who have not made previous contributions to the book Sharing their expertise they deliver dynamic new coverage of the importance of apoptosis autophagy cytokines growth factors oncogenes cell cycling receptors gene regulation protective mechanisms repair mechanisms transcription factors signaling pathways transgenic mice knock out mice humanized mice polymorphisms microarray technology second generation sequencing genomics proteomics epigenetics exposome microbiota read across adverse outcome pathways high content screening computational toxicology innovative test methods and organ on a chip in understanding the mechanisms of toxicity and the regulation of chemicals A true essential If you are in need of an up to date all in one overview of the biomedical and environmental aspects of toxicology written by experts and presented in full color your search ends here

Health and Safety in a Changing World Robert Dingwall, Shelley Frost, 2016-12-06 When health and safety regulatory frameworks took their present form in the 1970s they were seen as a triumph of welfare state intervention Since then as heavy industry has declined and office and retail employment have expanded new ways of working have radically altered the context of health and safety policy Many people have come to see health and safety interventions as an obstacle to innovation This book aims to address the changing context of health and safety policy exploring concerns arising within the profession and the appropriate responses Its manifesto for reform promises to frame the debate within the professional and policy community for a generation The result of a major research programme funded by the Institution of Occupational Safety and Health IOSH Health and Safety in a Changing World shows how health and safety policy has developed over time how it is applied in practice and how best to make it fit for purpose in the 21st century

The book will be essential reading for professionals practitioners and academic readers with an interest in the rapidly evolving field of health and safety

Big Science, Innovation, and Societal Contributions Shantha Liyanage, Markus Nordberg, Marilena Streit-Bianchi, 2024-03-12 Big Science Innovation and Societal Contributions offers a connection between Big Science and its societal impacts from a multidisciplinary perspective drawing on physics and astrophysics scholars to explain the reasoning behind their work and how such knowledge can be applied to everyday life Through simplifying complex scientific concepts Big Science Innovation and Societal Contributions explains the evolution of Big Science experiments and what it takes to manage and maintain complex scientific experiments with a human centred approach Further it examines the motivations behind international efforts to develop capital intensive and human resource rich large scale multi national scientific investments to solve fundamental research problems concerning our future Drawing on reliable scientific evidence multi disciplinary perspectives and personal insights from collider physics detectors accelerator and telescopes research the volume outlines the mechanisms benefits and methodologies as well as the potential challenges and short comings of Big Science to learn and reflect on for future initiatives This is an open access title available under the terms of a CC BY NC ND 4 0 International licence It is free to read at Oxford Scholarship Online and offered as a free PDF download from OUP and selected open access locations

Transforming Loneliness Ruth Graham, 2021-09-14 Loneliness knows no season It can strike during times of busyness and a full social calendar just as easily as it can when plans are canceled and friends are far off And we may be surprised just how common loneliness is among our friends family and colleagues But it isn't inevitable and it isn't forever In Transforming Loneliness Graham invites you to surrender your loneliness to God and work with Him in making healthy choices that lead to life joy and community Through biblical principles and examples along with true life stories you will discover how the core needs that drive your loneliness the need to be known to be chosen to belong and to be valued can be met as God transforms your loneliness into a positive experience that accomplishes His purposes and draws you into a closer more intimate and more meaningful relationship with Him and others Loneliness is not the last word God designed you for connection and through his power you will find it Includes a reader's discussion guide and the UCLA Loneliness Survey

Strengthening the community health worker practice Julie Ann St. John, Lily K. Lee, E. Lee Rosenthal, Durrell J. Fox, 2023-09-28

Empowered Educators in Australia Dion Burns, Ann McIntyre, 2017-04-03 BEST PRACTICES FROM AUSTRALIA'S HIGH PERFORMING SCHOOL SYSTEMS Empowered Educators in Australia is one volume in a series that explores how high performing educational systems from around the world achieve strong results The anchor book Empowered Educators How High Performing Systems Shape Teaching Quality Around the World is written by Linda Darling Hammond and colleagues with contributions from the authors of this volume The authors of Empowered Educators in Australia take an in depth look at the policies and practices surrounding teaching quality in two different states New South Wales NSW and Victoria NSW offers significant support for government schools in

areas such as staffing and teacher professional development Victoria operates a highly devolved school system Each provides a contrasting view of how federal and state policies combine to shape learning outcomes for students in Australia The interplay between state and federal policy characterizes an intriguing centralizing decentralization Initiatives to create national curricular teaching and teacher education standards all sit in balanced tension with a movement towards greater devolution of authority to schools Together the NSW and Victoria case studies provide insights into policies that can support high quality teaching in a federal education system Australia s current educational reforms place increasing emphasis on issues of teaching quality reshaping teaching as a standards based evidence informed profession and one that seeks to foster collegiality and professional exchange These reforms encompass many aspects of a system that supports teaching quality and highlight the way teachers are trained how they are inducted into the teaching profession and supported with mentors the professional learning they receive how they are appraised on their work and the career pathways for teachers

Stem Cells in Veterinary Science Ratan Kumar Choudhary, Shanti Choudhary, 2022-02-05 This book explores the potential applications of animal stem cells in veterinary medicine It begins with an overview of stem cells and their application in treating various animal diseases including mastitis In turn the book discusses the challenges of using stem cells in regenerative medicine and emphasizes the importance of understanding the action of stem cells and preclinical evidence for ensuring safety and therapeutic efficacy It also presents methods for the identification characterization and quantification of stem cells Further it discusses the therapeutic applications of different stem cells including milk derived testicular and mesenchymal stem cells in veterinary medicine Lastly it discusses strategies for and therapeutic applications of genome editing by CRISPER Cas9 in mammary stem cells As such the book offers a valuable resource for students and scientists working in the veterinary sciences and veterinarians

Magma Redox Geochemistry Roberto Moretti, Daniel R. Neuville, 2021-10-26 Explores the many facets of redox exchanges that drive magma s behavior and evolution from the origin of the Earth until today The redox state is one of the master variables behind the Earth s forming processes which at depth concern magma as the major transport agent Understanding redox exchanges in magmas is pivotal for reconstructing the history and compositional make up of our planet for exploring its mineral resources and for monitoring and forecasting volcanic activity Magma Redox Geochemistry describes the multiple facets of redox reactions in the magmatic realm and presents experimental results theoretical approaches and unconventional and novel techniques Volume highlights include Redox state and oxygen fugacity so close so far Redox processes from Earth s accretion to global geodynamics Redox evolution from the magma source to volcanic emissions Redox characterization of elements and their isotopes The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity Its publications disseminate scientific knowledge and provide resources for researchers students and professionals

Molecular Mechanisms in Pulmonary Hypertension and Right Ventricle Dysfunction Harry Karmouty-Quintana, Christophe Guignabert, Grazyna Kwapiszewska, Mark L.

Ormiston,2019-03-20 Pulmonary hypertension PH is a disorder of the pulmonary vasculature defined by increased mean pulmonary arterial pressure mPAP leading to right ventricle RV hypertrophy and dysfunction right sided heart failure and ultimately death PH is a common complication of chronic lung diseases CLD including idiopathic pulmonary fibrosis IPF or chronic obstructive pulmonary disease COPD where it is classified as Group 3 PH by the WHO It can also be associated with cardiovascular conditions such as left heart disease classified as Group 2 PH or appear on its own as pulmonary arterial hypertension PAH and classified as Group1 PH In all of these cases the diagnosis of pulmonary hypertension is strongly associated with increased morbidity and mortality The focus of this Research Topic is to enhance our understanding of the mechanisms that contribute to the pathophysiology of pulmonary hypertension and right ventricle hypertrophy *Gaps and Actions in Health Improvement from Hong Kong and Beyond* Ben Yuk Fai Fong,William Chi Wai Wong,2023-09-13 This book provides a timely review on what has been accomplished and what remains amiss following the World Health Organization's 1978 Health for All campaign by identifying enduring gaps in health care within a global context The WHO declaration of Health for All by the Year 2000 mapped out a road towards primary health care for all people and demarcated it as essential for human progress in terms of economic development and social justice However 45 years have gone by and most societies and countries have yet achieved health for all despite so much having changed in technology disease patterns and population demographics In promoting community health and improving service delivery the book advocates the development and implementation of All For Health strategies to steer stakeholders in the right direction towards universal health care The book covers the gaps and actions in health improvements the All For Health strategies and the Health in All Policies HiAP reviewing and discussing issues through both Asian and international examples Contributors include both academics and practitioners from diverse professional backgrounds including medicine nursing pharmacy allied health dietetics social sciences life sciences education business administration law and public policy Essential to scholars in public health and related disciplines this book is also useful to policymakers community and public health practitioners and health care executives and interns *Empowering Subaltern Voices Through Education* Urmee Chakma,2023-02-28 Based on a four year long empirical study this book employs contemporary theories from the Global South to investigate the role of education in the experience of migration and settlement of the Chakma people of Bangladesh in the city of Melbourne Australia Exploring the migration opportunities taken up by the Chakma and their efforts to retain promote and enrich their ethnic identity in Australia the book critically examines the importance of education for ethnic linguistic and religious minorities and the extent to which education helped the diasporic community in achieving a better and more secure life It also positions education as a tool to help revive maintain and enrich the importance of culture and tradition both in the home country and in the place of settlement and offers a theorisation of how the self directed pursuit of education can create opportunities for minority peoples to advocate human rights Indigenous recognition and criticise a state's failure to provide safety and security

This book will be of interest to academics and postgraduate students researching in the fields of education diaspora studies Indigenous studies and migration studies Community series in mental health promotion and protection, volume II
Naseem Akhtar Qureshi, Harshavardhan Sampath, Samrat Singh Bhandari, 2023-10-30 **Ethics in Psychiatry** Hanfried Helmchen, Norman Sartorius, Jakov Gather, 2025-03-19 This book presents a comprehensive review of ethical issues arising in psychiatric care and research Compared to the first edition ten of the 40 chapters comprising the book are new dealing with topics that were not covered in the previous edition A further 28 chapters have been updated by the previous authors or completely rewritten by new authors Containing contributions by leading European ethicists philosophers legal scholars and psychiatrists this book presents an excellent resource of information and insights for both psychiatrists and other professionals who wish to develop knowledge understanding and awareness about ethical issues arising in their practice research and public health action Chapter 6 is available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com)

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