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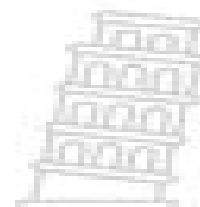
**GRADE 12**

**JUNE 2024**

**PHYSICAL SCIENCES P1**

**MARKS:** 150

**TIME:** 3 hours



This question paper consists of 17 pages, including 3 data sheets.

# Physical Sciences P1 Prelims 2014 Gauteng

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Chakravarty, Amit K. Jaiswal**



## **Physical Sciences P1 Prelims 2014 Gauteng:**

XXI DAE-BRNS High Energy Physics Symposium Bipul Bhuyan, 2015-12-30 These proceedings gather invited and contributed talks presented at the XXI DAE BRNS High Energy Physics Symposium which was held at the Indian Institute of Technology Guwahati in December 2014. The contributions cover many of the most active research areas in particle physics namely i Electroweak Physics ii QCD and Heavy Ion Physics iii Heavy Flavour Physics and CP Violation iv Neutrino Physics v Astro particle Physics and Cosmology vi Formal Theory vii Future Colliders and New Machines and viii BSM Physics SUSY Extra Dimensions Composites etc. The DAE BRNS High Energy Physics Symposium widely considered to be one of the premiere symposiums organised in India in the field of elementary particle physics is held every other year and supported by the Board of Research in Nuclear Sciences Department of Atomic Energy India. Roughly 250 physicists and researchers participated in the 21st Symposium discussing the latest advancements in the field in 18 plenary review talks 15 invited mini review talks and approximately 130 contributed presentations. Bringing together the essential content the book offers a valuable resource for both beginning and advanced researchers in the field. *Soviet Physics, JETP.*, 1982 ICPMG2014 - Physical Modelling in Geotechnics Christophe Gaudin, David White, 2019-01-08 The 8th International Conference on Physical Modelling in Geotechnics ICPMG2014 was organised by the Centre for Offshore Foundation Systems at the University of Western Australia under the auspices of the Technical Committee 104 for Physical Modelling in Geotechnics of the International Society of Soil Mechanics and Geotechnical Engineering. This quadrennial conference is the traditional focal point for the physical modelling community of academics scientists and engineers to present and exchange the latest developments on a wide range of physical modelling aspects associated with geotechnical engineering. These proceedings together with the seven previous proceedings dating from 1988 present an inestimable collection of the technical and scientific developments and breakthroughs established over the last 25 years. These proceedings include 10 keynote lectures from scientific leaders within the physical modelling community and 160 peer reviewed papers from 26 countries. They are organised in 14 themes presenting the latest developments in physical modelling technology modelling techniques and sensors through a wide range of soil structure interaction problems including shallow and deep foundations offshore geotechnics dams and embankments excavations and retaining structures and slope stability. Fundamental aspects of earthquake engineering geohazards ground reinforcements and improvements and soil properties and behaviour are also covered demonstrating the increasing complexity of modelling arising from state of the art technological developments and increased understanding of similitude principles. A special theme on education presents the latest developments in the use of physical modelling techniques for instructing undergraduate and postgraduate students in geotechnical engineering.

**Bangladesh Geosciences and Resources Potential** Khalil R. Chowdhury, Md. Sakawat Hossain, Md. Sharif Hossain Khan, 2022-01-24 This book focuses on the potential natural resources of Bangladesh from Precambrian to recent times and

their detailed geological background Natural resources and their management are important for the sustainable economic development of a country Focusing on the geological setting of the Bengal Basin Bangladesh Geosciences and Resources Potential introduces and comprehensively describes the depositional environments status and prospects of the potential natural resources of Bangladesh Individual chapters outline the potential resources comprising a wide range of deposit types across the country A selective overview of these natural resources metallic minerals coal limestone hydrocarbon peat placer deposits surface groundwater and so forth is provided with relevant references The book gives a synthesis of the issues in the mineral hydrocarbon and water resource sectors from a resource economic perspective FEATURES Provides a geoscientific knowledge of the potential natural resources with relevant maps figures and tables pertaining to the Bangladesh region Explains the resource economic context geomorphology and sustainable land use and the effects of climate change on both surface water and groundwater resources Discusses resource potentials based on systematic geological stages Presents the resources of renewable energy and discusses how to increase their use and effectiveness Reinforces basic geological processes and outcomes with an understanding of resource geology and constraints on natural resource management This book is aimed at researchers graduate students and professionals in geology energy and mineral resources hydrogeology water resources engineering the environmental sciences and resource exploration and planning **Laser Physics** ,2008

**Nuclear Science Abstracts** ,1975 **Radioactive Waste Processing and Disposal** United States. Energy Research and Development Administration. Technical Information Center,1975 **Math Chapterwise Solved Questions SSC CGL COMBINED GRADUATE LEVEL** Mocktime Publication, Math Chapterwise Solved Questions SSC CGL COMBINED GRADUATE LEVEL keywords ssc central police forces cpo capf ssc combined graduate level cgl combined higher secondary level exam chsl 10 2 level exam ssc ldc udc data entry operator exam ssc mts matriculation level exam ssc je civil mechanical electrical engineering exam ssc scientific assistant exam ssc english ajay kumar singh ssc english by neetu singh ssc english grammar ssc english arihant publication ssc previous year solved papers ssc general awareness ssc gk lucent ssc math rakesh yadav ssc previous year question bank ssc reasoning chapterwise solved papers ssc disha books ssc cgl questions ssc cpo questions ssc mts questions ssc chsl questions ssc ldc clerk ssc practice sets ssc online test ssc math chapterwise solved papers ssc english kiran publication ssc cgl cpo mts chsl je exam books ssc online practice sets for computer based exam ssc kiran books disha arihant lucen gk ssc neetu singh rakesh yadav ajay singh books ssc history geography polity economy science mcq ssc math reasoning english gk chapterwise papers last year previous year solved papers online practice test papers mock test papers computer based practice sets online test series exam guide manual books gk general knowledge awareness mathematics quantitative aptitude reasoning english previous year questions mcqs *Math Chapterwise Solved Questions SSC MTS MULTI-TASKING STAFF* Mocktime Publication, Math Chapterwise Solved Questions SSC MTS MULTI TASKING STAFF keywords ssc central police forces cpo capf ssc combined graduate level cgl combined higher secondary

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**From the Islands to the Mountains** Richard V. Heermance, Joshua J. Schwartz, 2020-06-03 This volume includes five geologic field trip guides in the Los Angeles region associated with the 2020 GSA Cordilleran Section Meeting that was scheduled for May 2020 in Pasadena California The guides are organized in a generally counterclockwise order around the Los Angeles Basin The first guide by Burgette et al provides new slip rates age constraints and observations of the active Sierra Madre fault zone that borders the northern side of the San Gabriel and San Fernando Valleys The Nourse et al guide takes a new look at the San Gabriel Mountains from a basement and geomorphologic perspective Further west Keller et al provide one of the first published field trip guides focused on the 9 January 2018 Montecito debris flows that caused 23 deaths The volume then moves south to Santa Cruz Island where Davis et al provide an updated review of the island's geology within the California borderlands The final guide returns to the east where Platt et al present the unique geology of Santa Catalina Island with a focus on the subduction related Catalina Schist website

**Science and Technology of Liquid Metal Coolants in Nuclear Engineering** Thiagarajan Gnanasekaran, 2024-09-17 Science and Technology of Liquid Metal Coolants in Nuclear Engineering is a comprehensive consolidation of the latest research and knowledge on liquid metal coolants Over the last decades various new technologies have been developed for the liquid metal coolants of fast breeder and fusion reactors and accelerator driven systems Details of pumps and instrumentation used in these coolants and their operating principles are included to provide the reader with a well rounded understanding of the topic and to guide on the operation of different liquid metal coolant systems Methods for the safe handling and control of impurity levels in these coolants are clearly discussed along with alkali metal fires and their management including methods for safe disposal of sodium waste Discusses the thermophysical and chemical properties of liquid metals described with their microscopic origin Includes methods for the safe handling of liquid metal coolants and their purification and management Discusses pumps and instrumentation principles and design

*Scientific and Technical Aerospace Reports*, 1971

**Science Abstracts**, 1955

*Coronavirus*

*Disease (COVID-19): Pathophysiology, Epidemiology, Clinical Management and Public Health Response*, 2023-01-25 Volume I

An outbreak of a respiratory disease first reported in Wuhan China in December 2019 and the causative agent was discovered in January 2020 to be a novel betacoronavirus of the same subgenus as SARS CoV and named severe acute respiratory syndrome coronavirus 2 SARS CoV 2 Coronavirus disease 2019 COVID 19 has rapidly disseminated worldwide with clinical manifestations ranging from mild respiratory symptoms to severe pneumonia and a fatality rate estimated around 2% Person to person transmission is occurring both in the community and healthcare settings The World Health Organization WHO has recently declared the COVID 19 epidemic a public health emergency of international concern The ongoing outbreak presents many clinical and public health management challenges due to limited understanding of viral pathogenesis risk factors for infection natural history of disease including clinical presentation and outcomes prognostic factors for severe illness period of infectivity modes and extent of virus inter human transmission as well as effective preventive measures and public health response and containment interventions There are no antiviral treatment nor vaccine available but fast track research and development efforts including clinical therapeutic trials are ongoing across the world Managing this serious epidemic requires the appropriate deployment of limited human resources across all cadres of health care and public health staff including clinical laboratory managerial and epidemiological data analysis and risk assessment experts It presents challenges around public communication and messaging around risk with the potential for misinformation and disinformation Therefore integrated operational research and intervention learning from experiences across different fields and settings should contribute towards better understanding and managing COVID 19 This Research Topic aims to highlight interdisciplinary research approaches deployed during the COVID 19 epidemic addressing knowledge gaps and generating evidence for its improved management and control It will incorporate critical theoretically informed and empirically grounded original research contributions using diverse approaches experimental observational and intervention studies conceptual framing expert opinions and reviews from across the world The Research Topic proposes a multi dimensional approach to improving the management of COVID 19 with scientific contributions from all areas of virology immunology clinical microbiology epidemiology therapeutics communications as well as infection prevention and public health risk assessment and management studies

**Gums, Resins and Latexes of Plant Origin** Hosakatte Niranjana Murthy, 2022-07-20 This reference book provides a comprehensive overview of natural gums resins and latexes of plants with a focus on their chemistry biological activities and practical uses The content is divided into five main sections each of which contains chapters contributed from valuable experts in their field Naturally occurring plant products have quite diverse applications in many different industries The book aims to highlight the important aspects of plant based gums resins and latexes as well as provide a strategic framework for further research and development activities on these bioproducts It will appeal to a broad audience such as biologists pharmacologists pharmacists food technologists and medical practitioners It is

also a useful resource for research investigators of the healthcare industry academia and students of biomedical sciences

Fruit and Vegetable Waste Utilization and Sustainability Sachin A. Mandavgane,Ipsita Chakravarty,Amit K.

Jaiswal,2023-03-20 Fruit and Vegetable Waste Utilization and Sustainability presents strategies to address the fruit and vegetable waste generated from agriculture and industrial processing Beginning with the introduction of waste management this book is divided into three sections Section one addresses the valorization of fruit and vegetable waste for high value products Section two focuses on the techno economic and environmental impact assessment of fruit and vegetable waste biorefinery through real life examples of the life cycle assessment Section three presents integrated biorefineries policies and case studies This book is a valuable resource for food scientists nutrition researchers food industry professionals academicians and students in related fields Lists extensive definitions case studies and applications Includes information on the integration of processes and technologies for biorefinery conceptualization Addresses both agricultural and industrial fruit and vegetable waste

*RNA Damage and Repair* Ioly Kotta-Loizou,2021-07-04 Ribonucleic acid RNA is a macromolecule that plays a central role in cell physiology RNA molecules act as intermediates between the deoxyribonucleic acid DNA where genetic information is stored and proteins which perform the necessary functions within the cell Traditionally the structural and functional properties of RNA are closely linked to gene expression However RNA based enzymes called ribozymes are also involved in catalysis and small RNAs regulate key cellular processes such as cell growth division differentiation aging and death RNA is a sensitive macromolecule that can be easily damaged by environmental conditions ultraviolet radiation oxidative stress and biological factors ribonucleases ribotoxins CRISPR Cas systems Therefore cells have developed mechanisms to protect and or repair RNA molecules This book presents an overview of the biology of RNA damage protection and repair in prokaryotes and eukaryotes Individual chapters cover the expression regulation enzymology and physiological role of such systems and link them to important human diseases such as cancer and degenerative diseases

**Science Citation Index** ,1994 Vols for 1964 have guides and journal lists IAG 150 Years Chris Rizos,Pascal Willis,2016-08-08 This proceedings contains a selection of peer reviewed papers presented at the IAG Scientific Assembly Postdam Germany 1 6 September 2013 The scientific sessions were focussed on the definition implementation and scientific applications of reference frames gravity field determination and applications the observation and assessment of earth hazards It presents a collection of the contributions on the applications of earth rotations dynamics on observation systems and services as well as on imaging and positioning techniques and its applications

**Cutting-Edge Analogue Modeling Techniques Applied to Study Earth Systems** Mélody Philippon,Christoph Von Hagke,Jacqueline E. Reber,Alain Zanella,2020-01-16

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web in order to get the maximum advantage of a prestressed concrete member it is necessary to use not only high strength concrete but also high tensile steel wires concrete used for prestressed work should have cube strength of 35 n mm<sup>2</sup> for

post tensioned system and 45n m m 2 for pretensioned system

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web advantages of prestressed concrete contrary to conventional concrete elements the entire concrete cross section of prestressed concrete resists applied load this is because the concrete in tension zone does not suffer cracking and hence it would take part in carrying loads

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web the prestressed concrete is much more usable in the construction of bridges railway sleepers and dams the dead load of the structure will be reduced by using prestressed concrete and it indirectly reduces the usage of steel and project cost disadvantages of prestressed concrete it is economical for large span structures only ample space

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