- (viii) Question numbers 19 to 24 in Section A are five-marks questions. These are to be answered in about 70 words each.
- (ix) Question numbers 25 to 33 in Section B are multiple choice questions based on practical skills. Each question is a one-mark question. You are to select one most appropriate response out of the four provided to you.
- (x) Question numbers 34 to 36 in Section B are two-marks questions based on practical skills. These are to be answered in brief.

#### भाग अ

#### SECTION A

उस समजातीय श्रेणी के द्वितीय और तृतीय सदस्य का आण्विक सूत्र लिखिए जिसका प्रथम सदस्य मेथैन है ।

Write the molecular formula of the 2<sup>nd</sup> and the 3<sup>rd</sup> member of the homologous series whose first member is methane.

- 2. जब कोई कोशिका जनन करती है, तब उसके DNA का क्या होता है?
  When a cell reproduces, what happens to its DNA?
- निम्नलिखित खाद्य शृंखला में, शेर को 100 J ऊर्जा उपलब्ध है । उत्पादक स्तर पर कितनी ऊर्जा उपलब्ध थी ?

In the following food chain, 100 J of energy is available to the lion. How much energy was available to the producer?

Plants ----- Deer ------ Lion

- 4. कोई बिम्ब 15 cm फोकस दूरी के अवतल लेंस से 30 cm दूरी पर स्थित है। लेंस द्वारा बने प्रतिबिम्ब के चार अभिलक्षणों (प्रकृति, स्थिति, आदि) की सूची बनाइए।
  An object is placed at a distance of 30 cm from a concave lens of focal length 15 cm. List four characteristics (nature, position, etc.) of the image formed by the lens.
- (i) वनों, एवं (ii) वन्य-जीवन के संरक्षण के दो लाभ लिखिए।
   State two advantages of conserving (i) forests, and (ii) wild-life.



1

1

2

2

# **Grade 9 Ana Paper 2014 Natural Science**

Osvaldo Gervasi, Beniamino
Murgante, Sanjay Misra, Elena
Stankova, Carmelo M. Torre, Ana Maria
A.C. Rocha, David Taniar, Bernady O.
Apduhan, Eufemia
Tarantino, Yeonseung Ryu

#### **Grade 9 Ana Paper 2014 Natural Science:**

Fostering Scientific Citizenship in an Uncertain World Graça S. Carvalho, Ana Sofia Afonso, Zélia Anastácio, 2023-07-18 This edited volume brings together innovative research in the field of Science Education fostering scientific citizenship in an uncertain world The nineteen chapters presented in this book address diverse topics and research approaches carried out in various contexts and settings worldwide contributing to improving and updating knowledge on science education The book consists of selected high quality studies presented at the 14th European Science Education Research Association ESERA Conference held online due to the Covid 19 pandemic by the University of Minho Portugal between August 30th and September 3rd 2021 Being of great relevance in contemporary science education this book stimulates reflection on different approaches to enhance a deeper understanding of how better prepare the coming generations which is of great interest to science education researchers and science teachers Computational Science and Its Applications - ICCSA 2014 Beniamino Murgante, Sanjay Misra, Ana Maria Alves Coutinho Rocha, Carmelo Torre, Jorge Gustavo Rocha, Maria Irene Falcão, David Taniar, Bernady O. Apduhan, Osvaldo Gervasi, 2014-07-02 The six volume set LNCS 8579 8584 constitutes the refereed proceedings of the 14th International Conference on Computational Science and Its Applications ICCSA 2014 held in Guimar es Portugal in June July 2014 The 347 revised papers presented in 30 workshops and a special track were carefully reviewed and selected from 1167 The 289 papers presented in the workshops cover various areas in computational science ranging from computational science technologies to specific areas of computational science such as computational geometry and security Philosophy of Science for Nursing Practice, Second Edition Michael D. Dahnke, H. Michael Dreher, 2015-11-04 Written for DNP and PhD nursing programs this text based on a unique team taught philosophy of science nursing courses distills challenging content and delivers it in clear highly accessible language for professors untrained in philosophy and their students Authored by a nurse researcher philosopher team who developed and taught this course for more than 7 years the book provides a unique integrated viewpoint that avoids esoteric and overly theoretical discussions and facilitates a clear connection between the philosophy of science and nursing science and practice This second edition offers enhanced clarity and encompasses updates in philosophy of science interpretation nursing practice and science and a still emerging practice epistemology It is distinguished by its increased emphasis on DNP investigation that relies on a fundamental relationship with evidence based practice as well as the informational needs of the PhD student and the type of research the PhD graduate is expected to produce The bulk of the text focuses on basic principles and concepts of the philosophy of science in regard to the education of both DNP and PhD nursing students The book discusses the concept of nursing as a practice discipline within historical and sociological contexts and addresses the importance of philosophy of science knowledge within a practice discipline It examines the controversial question of how much philosophy of science a doctoral student actually needs The text concludes with a brief introduction to nursing science knowledge

content that is an essential bridge to the philosophy of science content and serves as a next step toward building a nursing epistemology New to the Second Edition Revised to enhance clarity of information Reflects contemporary trends in doctoral nursing education Updated Questions for Reflection offer scholarly discourse New appendix offers a sample semester based syllabus based on the second edition Key Features Provides concise accessible information that makes clear connections to practical applications Written jointly by a philosopher and a nurse scholar who co teach the course Facilitates student ability to see the real connection between philosophy and practice Increased focused content on how philosophy of science content Autoimmuno-Anti-Tumour Immunity (AATI) is essential to understand evidence based and practice based evidence Understanding the Immune Responses against "Self" & "Altered-self" Fang-Ping Huang, 2017-05-16 The brief description of tumours being wounds that do not heal by Dr Harold F Dworak nearly three decades ago N Engl J Med 1986 has provided not only a vivid illustration of neoplastic diseases in general but also in retrospect conceptually a plausible immunological definition of cancers Based on our current understanding in the field it could have even a multi dimensional meaning attached with This relates to several important issues which need to be addressed further i e in terms of a close link between chronic inflammation and tumourigenesis widely observed clinical and experimental evidence of immunity against tumours versus the highly immunosuppressive tumour microenvironment being associated and their underlying immunological mechanisms oncogenic basis as well as the true causal relationship in question Recent findings from studies into the pathogenesis of autoimmunity and more importantly the mechanisms which protect against it have offered some new insights for our understanding in this direction Chronic or persistent autoimmune like inflammatory conditions are evidently associated with tumor development The important question is about their true causal relationship Chronic or persistent inflammation has been shown to contribute directly to tumour development by triggering neoplastic transformation and production of inflammatory mediators which could promote cancer cell survival proliferation and invasion On the other hand tumours are mutated self tissue cells to which the host immune system is largely tolerized otherwise Although the mutations may give rise to the expression of tumour specific antigens TSA or tumour associated antigens TAA most of these TSAs TAAs are found to be poor immunogens. The ongoing inflammatory conditions may therefore reflect a desperate attempt of the host immune system to mount anti tumour responses though ineffectively being a consequence of the continuous yet largely futile triggering by those poorly immunogenic TSAs TAAs Furthermore during autoimmune or overtly persistent immunological responses many regulatory mechanisms are triggered in the host in attempts to limit the ongoing harmful inflammatory reactions Such a negative feedback regulation is known to be crucial in preventing normal individuals from immune mediated diseases As a result of the negative feedback loop however an excessive production of anti inflammatory or immunosuppressive molecules followed by the exhaustion of the immune effector cells may instead lower the ability of the host immune system to mount specific anti tumor responses allowing the escape of tumour or mutated cells from

immunosurveillance This may also help to explain why the most effective way to enhance host immunity against cancer is by targeting the negative arm of immune regulation In this Frontiers Research Topic we aim to gather current views from experts in these inherent overlapping fields of oncology autoimmunity and tumour immunology and to make them available to our potential readership who may be particularly interested in this cutting edge area By understanding how the immune system is normally regulated why dysregulation of which may cause the immunological oncological related diseases we also encourage further discussions as to how the so called self reactivity autoimmune responses can be alternatively switched on and redirected immunologically or molecularly for effective cancer treatment Atlas of Forecasts Katy Börner, 2021-08-31 Forecasting the future with advanced data models and visualizations To envision and create the futures we want society needs an appropriate understanding of the likely impact of alternative actions Data models and visualizations offer a way to understand and intelligently manage complex interlinked systems in science and technology education and policymaking Atlas of Forecasts from the creator of Atlas of Science and Atlas of Knowledge shows how we can use data to predict communicate and ultimately attain desirable futures Using advanced data visualizations to introduce different types of computational models Atlas of Forecasts demonstrates how models can inform effective decision making in education science technology and policymaking The models and maps presented aim to help anyone understand key processes and outcomes of complex systems dynamics including which human skills are needed in an artificial intelligence empowered economy what progress in science and technology is likely to be made and how policymakers can future proof regions or nations This Atlas offers a driver's seat perspective for a test drive of the future **Brain-Targeted Autoimmunity: Beyond Multiple Sclerosis** Serge Nataf, Roland S. Liblau, Guillaume Dorothee, Stéphane Hunot, 2021-06-01 Handbook of Food and Feed from Microalgae Eduardo Jacob-Lopes, Maria Isabel Queiroz, Mariana Manzoni Maroneze, Leila Queiroz Zepka, 2023-06-09 Handbook of Food and Feed From Microalgae Production Application Regulation and Sustainability is a comprehensive resource on all aspects of using microalgae in food and feed This book covers applied processes including the utilization of compounds found in microalgae the development of food products with microalgae biomass in their composition the use of microalgae in animal nutrition and associated challenges and recent advances in this field Written by global leading experts in microalgae this book begins with the fundamentals of food and feed including microalgal biodiversity biogeography and nutritional purposes The book continues to describe compounds found within microalgae such as proteins pigments and antioxidants It explains the process incorporation of microalgae into meat dairy beverage and wheat products as well as real world food applications in finfish aquaculture mollusk poultry and pet feeding The book concludes by discussing challenges and issues in the field encompassing bioavailability bio accessibility and how to address safety regulatory market economics and sustainability concerns This book is a valuable resource for aquaculturists food scientists and advanced undergraduate and graduate students interested in microalgae as a sustainable food and feed ingredient Examines current data behind the

food and feed production using microalgae based processes Analyzes and details the use of microalgae across industries and disciplines Addresses and offers solutions to safety market sustainability and economic issues **Neuroinfectious Diseases - Case Report Collection 2022** Christina M. Marra, 2023-06-23 Advances in Energy, Environment and Materials Science Yeping Wang, Shiguan Zhou, 2016-11-30 The 2016 International Conference on Energy Environment and Materials Science EEMS 2016 took place on July 29 31 2016 in Singapore EEMS 2016 has been a meeting place for innovative academics and industrial experts in the field of energy and environment research. The primary goal of the conference is to promote research and developmental activities in energy and environment research and further to promote scientific information exchange between researchers developers engineers students and practitioners working all around the world The conference will be organized every year making it an ideal platform for people to share views and experiences in energy environment and materials science and related areas Perspectives on the Restoration of the Mississippi **Delta** John W. Day, G. Paul Kemp, Angelina M. Freeman, David P. Muth, 2014-05-16 Human impacts and emerging mega trends such as climate change and energy scarcity will impact natural resource management in this century This is especially true for deltas because of their ecological and economic importance and their sensitivity to climate change The Mississippi delta is one of the largest in the world and has been strongly impacted by human activities Currently there is an ambitious plan for restoration of the delta This book by a renown group of delta experts provides an overview of the challenges facing the delta and charts a way forward to sustainable management Invaders on the Horizon! Scanning the Future of Invasion Science and Management Ana Sofia Vaz, Ana Novoa, Joana Raquel Vicente, Ross Taylor Shackleton, Joao Pradinho Honrado, 2021-11-15

Blockchain-Enabled Resilience Polinpapilinho F. Katina, Adrian V. Gheorghe, 2023-03-17 This book provides a first of its kind approach for using blockchain to enhance resilience in disaster supply chain and logistics management especially when dealing with dynamic communication relief operations prioritization coordination and distribution of scarce resources these are elements of volatility uncertainty complexity and ambiguity VUCA describing a dynamic environment that now form the new norm for many leaders Blockchain Enabled Resilience An Integrated Approach for Disaster Supply Chain and Logistics Management analyzes the application of blockchain technology used to enable resilience in a disaster supply chain network It discusses IoT and DVFS algorithms for developing a network based simulation and presents advancements in disaster supply chain strategies using smart contacts for collaborations The book covers how success is based on collaboration coordination sovereignty and equality in distributing resources and offers a theoretical analysis that reveals that enhancing resilience can improve collaboration and communication and can result in more time efficient processing for disaster supply management The book offers a first of its kind approach for managers and policy makers as well as researchers interested in using blockchain to enhance resilience in disaster supply chains especially when dealing with dynamic communication relief operations prioritization coordination and distribution of scarce resources Practical guidance is provided for managers

interested in implementation A robust research agenda is also provided for those interested in expanding present research Enhancing Science Education Margaret A.L. Blackie, Hanelie Adendorff, Marnel Mouton, 2022-08-15 This book helps meet an urgent need for theorized accessible and discipline sensitive publications to assist science technology engineering and mathematics educators The book introduces Legitimation Code Theory LCT and demonstrates how it can be used to improve teaching and learning in tertiary courses across the sciences LCT provides a suite of tools which science educators can employ in order to help their students grasp difficult and dense concepts The chapters cover a broad range of subjects including biology physics chemistry and mathematics as well as different curriculum pedagogy and assessment practices This is a crucial resource for any science educator who wants to better understand and improve their teaching "Outside-in" Paradigms in Multiple Sclerosis Etiopathogenesis Antonio Luchicchi, Paolo Preziosa, Bert A 'T Hart, 2021-04-12 Topic Editor Paolo Preziosa received speaker honoraria from Biogen Idec Novartis Merck Serono and ExceMED The rest of Topic Editors declare no competing interests with regards to the Research Topic Heritage, Culture and Society Salleh Mohd Radzi, Mohd Hafiz Mohd Hanafiah, Norzuwana Sumarjan, Zurinawati Mohi, Didi Sukyadi, Karim Suryadi, Pupung Purnawarman, 2016-10-26 Heritage Culture and Society contains the papers presented at the 3rd International Hospitality and Tourism Conference IHTC2016 2nd International Seminar on Tourism ISOT 2016 Bandung Indonesia 10 12 October 2016 The book covers 7 themes i Hospitality and tourism management ii Hospitality and tourism marketing iii Current trends in hospitality and tourism management iv Technology and innovation in hospitality and tourism v Sustainable tourism vi Gastronomy foodservice and food safety and vii Relevant areas in hospitality and tourism Heritage Culture and Society is a significant contribution to the literature on Hospitality and Tourism and will be of interest to professionals and academia in both areas Biomedical Engineering Systems and Technologies Mireya Fernández-Chimeno, Pedro L. Fernandes, Sergio Alvarez, Deborah Stacey, Jordi Solé-Casals, Ana Fred, Hugo Gamboa, 2014-11-01 This book constitutes the thoroughly refereed post conference proceedings of the 6th International Joint Conference on Biomedical Engineering Systems and Technologies BIOSTEC 2013 held in Barcelona Spain in February 2013 The 28 revised full papers presented were carefully reviewed and selected from a total of 392 submissions. The papers cover a wide range of topics and are organized in four general topical sections on biomedical electronics and devices bioinformatics models methods and algorithms bio inspired systems and signal processing health informatics A Cross-Disciplinary Exploration of STEM Yadir Torres, Ana M. Beltrán, Manuel Felix, Estela Peralta, Diego F. Larios Marín, 2025-08-10 This book compiles selected works from a workshop promoting collaboration between academia industry and society by engaging educators researchers technicians and students It highlights advancements in Artificial Intelligence Additive Fabrication Smart Manufacturing and 3D Printing Key topics include circular economy bio inspired sensory fusion systems computer aided design and machine vision in manufacturing Themes also explore industrial robotics neuromorphic systems product design efficiency management and

automatic control in manufacturing By integrating STEM industrial and environmental chemistry and sustainable technologies this book underscores innovative approaches for future industrial and societal challenges Science and Its Applications - ICCSA 2018 Osvaldo Gervasi, Beniamino Murgante, Sanjay Misra, Elena Stankova, Carmelo M. Torre, Ana Maria A.C. Rocha, David Taniar, Bernady O. Apduhan, Eufemia Tarantino, Yeonseung Ryu, 2018-07-03 The five volume set LNCS 10960 until 10964 constitutes the refereed proceedings of the 18th International Conference on Computational Science and Its Applications ICCSA 2018 held in Melbourne Australia in July 2018 Apart from the general tracks ICCSA 2018 also includes 34 international workshops in various areas of computational sciences ranging from computational science technologies to specific areas of computational sciences such as computer graphics and virtual reality The total of 265 full papers and 10 short papers presented in the 5 volume proceedings set of ICCSA 2018 were carefully reviewed and selected from 892 submissions Artificial Intelligence in Positron Emission Tomography Xiaoli Lan, Kuangyu Shi,Xiu Ying Wang,Chuantao Zuo,2022-03-02 *Nanotechnology Applications in the Food Industry V Ravishankar* Rai, Jamuna A Bai, 2018-01-31 Nanotechnology is increasingly used in the food industry in the production processing packaging and preservation of foods It is also used to enhance flavor and color nutrient delivery and bioavailability and to improve food safety and in quality management Nanotechnology Applications in the Food Industry is a comprehensive reference book containing exhaustive information on nanotechnology and the scope of its applications in the food industry The book has five sections delving on all aspects of nanotechnology and its key role in food industry in the present scenario Part I on Introduction to Nanotechnology in Food Sector covers the technological basis for its application in food industry and in agriculture The use of nanosized foods and nanomaterials in food the safety issues pertaining to its applications in foods and on market analysis and consumer perception of food nanotechnology has been discussed in the section Part II on Nanotechnology in Food Packaging reviews the use of nanopolymers nanocomposites and nanostructured coatings in food packaging Part III on Nanosensors for Safe and Quality Foods provides an overview on nanotechnology in the development of biosensors for pathogen and food contaminant detections and in sampling and food quality management Part IV on Nanotechnology for Nutrient Delivery in Foods deals with the use of nanotechnology in foods for controlled and effective release of nutrients Part V on Safety Assessment for Use of Nanomaterials in Food and Food Production deliberates on the benefits and risks associated with the extensive and long term applications of nanotechnology in food sector

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