

## basic education

Department: Basic Education REPUBLIC OF SOUTH AFRICA

#### NATIONAL SENIOR CERTIFICATE

**GRADE 11** 

LIFE SCIENCES P1

**EXEMPLAR 2013** 

MEMORANDUM

**MARKS: 150** 

This memorandum consists of 10 pages.

# **Examplar P2013 Grade1life Sciences**

**RC Schank** 

#### **Examplar P2013 Grade1life Sciences:**

Photosynthesis-Assisted Energy Generation Sathish-Kumar Kamaraj, Iryna Rusyn, 2024-02-06 Photosynthesis Assisted Energy Generation Describes the mechanisms of and potential for using microorganisms and plants as renewable power resources Bridging the knowledge gap between the fundamentals and the technological advances in biological photosynthesis assisted energy generation Photosynthesis Assisted Energy Generation explores the various diverse light harvesting biological systems for electricity generation and explains the fundamentals and applications from lab scale to in field The text discusses the fundamentals of electron transfer mechanisms in photosynthetic systems basic principles of bioelectricity generation and materials involved in the construction of fuel cells including not only the impact of higher plants but also anoxygenic and oxygenic photosynthetic bacteria and microalgae on the performance of photosynthesis assisted power generation systems A timely resource the text features case studies on emerging topics such as mosses in power generation on green roofs and photo bioelectrochemical fuel cells for antibiotics and dyes removal along with discussion of sustainability issues when scaling up bio photo electrochemical systems Edited by two highly qualified and accomplished academics with significant research experience in the field Photosynthesis Assisted Energy Generation includes information on Role of functional materials involved in photosynthesis assisted power generation and non noble electrocatalysts as air cathodes in biocells Electricity generation and intensified synthesis of nutrients by plant based biofuel cells using duckweeds as biocatalysts Algae based microbial fuel cells photosynthetic bacteria based microbial fuel cells and bryophyte microbial fuel cell systems Progress and recent trends of application of low energy consuming devices and IoT based on photosynthesis assisted power generation Plant based microbial fuel cells for bioremediation biosensing and plant health monitoring With full coverage of an attractive renewable energy generation system Photosynthesis Assisted Energy Generation is an essential resource on the subject for researchers and scientists interested in alternative renewable energetics and photosynthesis assisted energy generation processes utilizing microorganisms algae plants and other bioinspired materials Life-Cycle of Engineering Systems: Emphasis on Sustainable Civil Infrastructure Jaap Bakker, Dan M. Frangopol, Klaas Breugel, 2016-11-18 This volume contains the papers presented at IALCCE2016 the fifth International Symposium on Life Cycle Civil Engineering IALCCE2016 to be held in Delft The Netherlands October 16 19 2016 It consists of a book of extended abstracts and a DVD with full papers including the Fazlur R Khan lecture keynote lectures and technical papers from all over the world All major aspects of life cycle engineering are addressed with special focus on structural damage processes life cycle design inspection monitoring assessment maintenance and rehabilitation life cycle cost of structures and infrastructures life cycle performance of special structures and life cycle oriented computational tools The aim of the editors is to provide a valuable source for anyone interested in life cycle of civil infrastructure systems including students researchers and practitioners from all areas of engineering and industry The Handbook of Salutogenesis Maurice B. Mittelmark, Shifra Sagy, Monica Eriksson, Georg

F. Bauer, Jürgen M. Pelikan, Bengt Lindström, Geir Arild Espnes, 2016-09-02 This in depth survey of salutogenesis shows the breadth and strengths of this innovative perspective on health promotion health care and wellness Background and historical chapters trace the development of the salutogenic model of health and flesh out the central concepts most notably generalized resistance resources and the sense of coherence that differentiate it from pathogenesis From there experts describe a range of real world applications within and outside health contexts from positive psychology to geriatrics from small towns to corrections facilities and from school and workplace to professional training Perspectives from scholars publishing in languages other than English show the global relevance of the field Among the topics in the Handbook Emerging ideas relevant to the salutogenic model of health Specific resistance resources in the salutogenic model of health The sense of coherence and its measurement The application of salutogenesis in communities and neighborhoods The application of salutogenesis to health development in youth with chronic conditions The application of salutogenesis in mental health care settings The Handbook of Salutogenesis summarizes an increasingly salient field for graduate and professional students of public health nursing psychology and medicine and for their instructors It will also appeal to health related academicians and professionals who wish to have a thorough grounding in the topic The Upcoming Complications of COVID-19 on Recovered Patients: Molecular Mechanisms and Therapeutic Opportunities Rana Jahanban-Esfahlan, Zohreh Political Pressures on Educational and Social Research Amoozgar, Seved Hassan Seradj, William C. Cho, 2022-06-07 Karen Trimmer, 2016-05-12 Political Pressures on Educational and Social Research draws upon a variety of theoretical and methodological approaches to consider the problems that can arise when research findings diverge from political directions for policy Chapters explore the impacts this can have on the researchers as well as the influence it has on the research including the methodology and the publication of results The book offers innovative ways of seeing how these connect overlap and interact revealing particular issues of concern for researchers and evaluators in the context of research internationally Key topics include the power and positioning of research evidence based policy development ethics and the importance of research that seeks to explore and discover knowledge The book is divided into two sections The first presents chapters from international academics which provide a theoretical underpinning and discussion of power policy ethics and their influence on research resourcing autonomy purpose and methodology The second section explores specific case studies and instances from the authors own experiences in the field This book offers an interesting and enlightening insight into the sometimes political nature of research and will appeal to researchers evaluators and postgraduate students in the fields of education and the social sciences It will be of particular interest to those studying research methods **Bibliographic** 

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