



Northern Cape Department of Education

GRADE 12

LIFE SCIENCES

MEMORANDUM

JUNE 2024

TIME: 2 $\frac{1}{2}$ HOURS

MARKS: 150

This question paper consists of 11 pages

Memorandum Gr12 Practical2015 Life Sciences

JG Myers



Memorandum Gr12 Practical2015 Life Sciences:

The Use of Dispersants in Marine Oil Spill Response National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Board on Environmental Studies and Toxicology, Ocean Studies Board, Committee on the Evaluation of the Use of Chemical Dispersants in Oil Spill Response, 2020-05-24 Whether the result of an oil well blowout vessel collision or grounding leaking pipeline or other incident at sea each marine oil spill will present unique circumstances and challenges The oil type and properties location time of year duration of spill water depth environmental conditions affected biomes potential human community impact and available resources may vary significantly Also each spill may be governed by policy guidelines such as those set forth in the National Response Plan Regional Response Plans or Area Contingency Plans To respond effectively to the specific conditions presented during an oil spill spill responders have used a variety of response options including mechanical recovery of oil using skimmers and booms in situ burning of oil monitored natural attenuation of oil and dispersion of oil by chemical dispersants Because each response method has advantages and disadvantages it is important to understand specific scenarios where a net benefit may be achieved by using a particular tool or combination of tools This report builds on two previous National Research Council reports on dispersant use to provide a current understanding of the state of science and to inform future marine oil spill response operations The response to the 2010 Deepwater Horizon spill included an unprecedented use of dispersants via both surface application and subsea injection The magnitude of the spill stimulated interest and funding for research on oil spill response and dispersant use in particular This study assesses the effects and efficacy of dispersants as an oil spill response tool and evaluates trade offs associated with dispersant use

Essentials of Bioinformatics, Volume II Noor Ahmad Shaik, Khalid Rehman Hakeem, Babajan Banaganapalli, Ramu Elango, 2019-10-18 Bioinformatics is an integrative field of computer science genetics genomics proteomics and statistics which has undoubtedly revolutionized the study of biology and medicine in past decades It mainly assists in modeling predicting and interpreting large multidimensional biological data by utilizing advanced computational methods Despite its enormous potential bioinformatics is not widely integrated into the academic curriculum as most life science students and researchers are still not equipped with the necessary knowledge to take advantage of this powerful tool Hence the primary purpose of our book is to supplement this unmet need by providing an easily accessible platform for students and researchers starting their career in life sciences This book aims to avoid sophisticated computational algorithms and programming Instead it focuses on simple DIY analysis and interpretation of biological data with personal computers Our belief is that once the beginners acquire these basic skillsets they will be able to handle most of the bioinformatics tools for their research work and to better understand their experimental outcomes Our second title of this volume set *In Silico Life Sciences Medicine* provides hands on experience in analyzing high throughput molecular data for the diagnosis prognosis and treatment of monogenic or polygenic human diseases The key concepts in this volume include risk factor assessment

genetic tests and result interpretation personalized medicine and drug discovery This volume is expected to train readers in both single and multi dimensional biological analysis using open data sets and provides a unique learning experience through clinical scenarios and case studies The European Union in the 21st Century Nikolaos Zahariadis,2023-08-24 The European Union in the 21st Century takes a fresh look at a complex and ever changing organization by examining its pursuit of two very different objectives power security and political weight and plenty economic growth and social welfare Nikolaos Zahariadis aims to help students understand these two objectives and how the tension between them affects different issue areas illuminating how each objective represents a different perspective on what the EU is and what it does The book also introduces students to the systematic thinking that political scientists employ to see the connections between policies institutions and actors By unpacking the various perspectives students will gain greater insight into how policymakers think and why EU leaders make the kinds of decisions they do **ASME Technical Papers** , August's Consultations in Feline Internal Medicine, Volume 7 Susan E. Little,2015-12-14 Stay current with cutting edge information from the leading feline experts August s Consultations in Feline Internal Medicine Volume 7 takes the popular Current Therapy approach to the latest issues advances and therapies in feline care The 103 new chapters are organized by body systems making information easy to access and include more than 800 new detailed photographs diagrams and MRI and ultrasound images Discussions of scientific findings always emphasize clinical relevance and practical application This edition addresses new topics ranging from feline obesity and food allergies to respiratory mycoplasmal infections From feline expert Susan Little with chapters written by more than 130 international specialists this practical resource will be an invaluable addition to every small animal clinician s library The Current Therapy format focuses on the latest advances in feline care and includes broad traditional and controversial subjects of real clinical importance Clinically relevant approach is supported with scientific research and promotes practical progressive clinical management More than 130 world renowned contributors provide expert insight across the full spectrum of feline internal medicine Extensive references make it easy to find additional information about specific topics most important to your practice 103 ALL NEW chapters reflect the latest findings reports and evidence based coverage of pressing topics such as Managing respiratory mycoplasmal infections Continuous glucose monitoring in cats with diabetes Feline food allergy Stem cell therapy for chronic kidney disease Feline idiopathic cystitis Electrochemotherapy Current concepts in preventing and managing obesity Recognition and treatment of hypertensive crises Feline social behavior and personality NEW Emergency and Critical Care Medicine section contains 13 chapters covering complicated and serious internal medical problems NEW More than 800 colorful new images clarify concepts and demonstrate clinical examples *Subject Guide to Books in Print* ,1991 *Cumulated Index to the Books* ,1938 **The Publishers' Trade List Annual** ,1979 Index Veterinarius ,2006 **Paperbound Books in Print** ,1984 *Life Sciences* Helena Fouché,2011 *Study and Master Life Sciences Grade 12 CAPS Study Guide* Gonasagaren S. Pillay,Prithum

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