



Department of Education
EASTERN CAPE
EDUCATION

**NATIONAL
SENIOR CERTIFICATE**

GRADE 12

JUNE 2024

PHYSICAL SCIENCES P1

MARKS: 150

TIME: 3 hours



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

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M Walker



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Understanding Water Security at Local Government Level in South Africa Richard Meissner, Nikki Funke, Karen Nortje, Maronel Steyn, 2018-11-11 This book provides unique insights into the complex issue of water security in South Africa Based on qualitative research conducted through face to face structured interviews and focus group discussions with individuals traditional leaders municipal officials researchers businesspeople and farmers in the two local governments the Sekhukhune District and eThekweni Metropolitan Municipalities it focuses on the peoples understanding of the concept of water security and whether they believe that the municipalities have achieved water security for all The research is supported by water security related statistics particularly those pertaining to water quality and quantity and an extensive literature review for the concept of water security In addition to assessing the state of water security in both municipalities the book presents a new water security definition and typology and offers valuable recommendations for future research

Quaternary Environmental Change in Southern Africa Jasper Knight, Stefan W. Grab, 2016-06-23 Ongoing climate change necessitates advances in our understanding of the interrelationships between climate landscape shaping processes and human activity over long time periods especially in areas that are already climatically stressed This volume presents new ideas on macroscale landscape evolution mountain fluvial and aeolian processes and environments in southern Africa a key region in the story of human evolution during the last two million years Interdisciplinary in scope it brings together an international team of experts to synthesise the latest research and understanding of landscape human relationships in this region It incorporates results from the emerging fields of geoarchaeology and cultural landscapes and utilises the latest data and analytical techniques A key reference for researchers studying hominid evolution geoarchaeology and environmental change it provides a benchmark study of southern African landscape evolution during the Quaternary It will also appeal to professionals and policymakers with interests in future human landscape evolution in southern Africa **Veterinary**

Epidemiology Michael Thrusfield, 2018-04-30 A comprehensive introduction to the role of epidemiology in veterinary medicine This fully revised and expanded edition of *Veterinary Epidemiology* introduces readers to the field of veterinary epidemiology The new edition also adds new chapters on the design of observational studies validity in epidemiological studies systematic reviews and statistical modelling to deliver more advanced material This updated edition begins by offering an historical perspective on the development of veterinary medicine It then addresses the full scope of epidemiology with chapters covering causality disease occurrence determinants disease patterns disease ecology and much more *Veterinary Epidemiology* Fourth Edition Features updates of all chapters to provide a current resource on the subject of veterinary epidemiology Presents new chapters essential to the continued advancement of the field Includes examples from companion animal livestock and avian medicine as well as aquatic animal diseases Focuses on the principles and concepts of epidemiology surveillance and diagnostic test validation and performance Includes access to a companion website providing

multiple choice questions Veterinary Epidemiology is an invaluable reference for veterinary general practitioners government veterinarians agricultural economists and members of other disciplines interested in animal disease It is also essential reading for epidemiology students at both the undergraduate and postgraduate levels *Physical Science* Franco Giuseppe Dal Bianco,2000 *Physical Science* Franco Giuseppe Dal Bianco,2002 Physical Science Franco Giuseppe Dal Bianco,2001 **Physical Science** ,1981

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