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REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF EDUCATION

**NATIONAL
SENIOR CERTIFICATE**

GRADE 12

PHYSICAL SCIENCES: PHYSICS (P1) AND CHEMISTRY (P2)

PRE-TRIAL EXAM

22 AUGUST 2022

MARKS: 150

TIME: 3 hours

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This question paper consists of 16 pages and 5 data sheets.

Limpopo September Grade 12 Lifescience

Scott C. Dulebohn



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Science Teacher Education for Responsible Citizenship Maria Evagorou, Jan Alexis Nielsen, Justin Dillon, 2020-03-23 This edited book aims to provide a global perspective on socioscientific issues SSI responsible citizenship and the relevance of science with an emphasis on science teacher education The volume with more than twenty five contributors from Africa North and South America Asia Australasia and Europe focuses on examples from in and pre service teacher training The contributors expand on issues related to teachers beliefs about teaching SSI teachers challenges when designing and implementing SSI related activities the role of professional development both in pre and in service teacher training in promoting SSI the role of the nature of science when teaching SSI promoting scientific practices through SSI in pre service teaching and the role of indigenous knowledge in SSI teaching Finally the book discusses new perspectives for addressing SSI in teacher education through the lens of relevance and responsible citizenship

Future-proofing STEAME education in South Africa Rajendran Govender, Josef de Beer, Rouaan Maarman, Rajendra Chetty, 2025-02-28 This book aims to contribute to the discourse of finding innovative solutions to the myriad of challenges facing science education in South Africa The book positions itself in the multi disciplinary focus on Science Technology Engineering Arts Mathematics and Entrepreneurship STEAME education rather than the traditional narrow focus on Science Technology Engineering and Mathematics STEM The chapters in the book explore the challenges and opportunities facing STEAME education in a complex 21st century and at the advent of a society with a strong artificial intelligence component in its DNA The leitmotif of the book is how engaging pedagogies could be utilised in the classroom to enhance self directed learning a sine qua non to future proof South Africa s science and technological advancement This is a book written by scholars for scholars Its target audience includes academics and researchers in the field of science education and scholars engaged with innovative teaching pedagogies particularly approaches that would enhance the achievement of learners in disadvantaged contexts The chapters in the book although eclectic in approach all contribute to the central theme of the book Most of the chapters lean on textual analyses literature reviews or concept papers which disclose new ideas before full validation

Annual Report South Africa. Department of Basic Education, 2016

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