

Candidate Name

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ZIMBABWE SCHOOL EXAMINATIONS COUNCIL

General Certificate of Education Ordinary Level

PHYSICS

PAPER 2 Theory

5055/2

NOVEMBER 2014 SESSION

1 hour 45 minutes

Additional materials:

Answer paper

Electronic calculator and/or Mathematical tables

Graph paper

TIME 1 hour 45 minutes

INSTRUCTIONS TO CANDIDATES

Write your name, Centre number and candidate number in the spaces at the top of this page and on any separate answer paper used.

Section A

Answer **all** questions.

Write your answers in the spaces provided on the question paper.

Section B

Answer **any two** questions.

Write your answers on the lined pages provided and, if necessary, continue on the separate answer paper provided.

At the end of the examination fasten any separate answer paper used securely to the question paper.

INFORMATION FOR CANDIDATES

The number of marks is given in brackets [] at the end of each question or part question.

Candidates are reminded that **all** quantitative answers should include appropriate units.

Candidates are advised to show **all** their working in a clear and orderly manner, as more marks are awarded for sound use of Physics than for correct answers.

FOR EXAMINER'S USE	
Section A	
Section B	
TOTAL	

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Treagust, Reinders Duit, Hans E. Fischer, 2017-07-24 This volume is important because despite various external representations such as analogies metaphors and visualizations being commonly used by physics teachers educators and researchers the notion of using the pedagogical functions of multiple representations to support teaching and learning is still a gap in physics education The research presented in the three sections of the book is introduced by descriptions of various psychological theories that are applied in different ways for designing physics teaching and learning in classroom settings The following chapters of the book illustrate teaching and learning with respect to applying specific physics multiple representations in different levels of the education system and in different physics topics using analogies and models different modes and in reasoning and representational competence When multiple representations are used in physics for teaching the expectation is that they should be successful To ensure this is the case the implementation of representations should consider design principles for using multiple representations Investigations regarding their effect on classroom communication as well as on the learning results in all levels of schooling and for different topics of physics are reported The book is intended for physics educators and their students at universities and for physics teachers in schools to apply multiple representations in physics in a productive way Re-examining Pedagogical Content Knowledge in Science Education

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innovative contributions from related fields with computer science and mathematics as an important technical basis among others The workshop discussed the state of the art and the further evolution of numerical techniques for simulation in engineering and science We focus on current trends in numerical simulation in science and engineering new requirements arising from rapidly increasing parallelism in computer architectures and novel mathematical approaches Accordingly the chapters of the book particularly focus on parallel algorithms and performance optimization coupled systems and complex applications and optimization

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1. Understanding the eBook 2014 Physics Paper 2 Exemplar
 - The Rise of Digital Reading 2014 Physics Paper 2 Exemplar
 - Advantages of eBooks Over Traditional Books
2. Identifying 2014 Physics Paper 2 Exemplar
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an eBook 2014 Physics Paper 2 Exemplar
 - User-Friendly Interface
4. Exploring eBook Recommendations from 2014 Physics Paper 2 Exemplar
 - Personalized Recommendations
 - 2014 Physics Paper 2 Exemplar User Reviews and Ratings

- 2014 Physics Paper 2 Exemplar and Bestseller Lists
- 5. Accessing 2014 Physics Paper 2 Exemplar Free and Paid eBooks
 - 2014 Physics Paper 2 Exemplar Public Domain eBooks
 - 2014 Physics Paper 2 Exemplar eBook Subscription Services
 - 2014 Physics Paper 2 Exemplar Budget-Friendly Options
- 6. Navigating 2014 Physics Paper 2 Exemplar eBook Formats
 - ePub, PDF, MOBI, and More
 - 2014 Physics Paper 2 Exemplar Compatibility with Devices
 - 2014 Physics Paper 2 Exemplar Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 2014 Physics Paper 2 Exemplar
 - Highlighting and Note-Taking 2014 Physics Paper 2 Exemplar
 - Interactive Elements 2014 Physics Paper 2 Exemplar
- 8. Staying Engaged with 2014 Physics Paper 2 Exemplar
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 2014 Physics Paper 2 Exemplar
- 9. Balancing eBooks and Physical Books 2014 Physics Paper 2 Exemplar
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 2014 Physics Paper 2 Exemplar
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 2014 Physics Paper 2 Exemplar
 - Setting Reading Goals 2014 Physics Paper 2 Exemplar
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 2014 Physics Paper 2 Exemplar
 - Fact-Checking eBook Content of 2014 Physics Paper 2 Exemplar
 - Distinguishing Credible Sources

-
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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