



PHYS1534  
Time: 1h

Semester Test 2

11 May 2019  
Marks: 50

Assessors: Dr. S. Gropé  
Dr. R. Tshabalala  
Moderator: Dr. R. Harris

### Section A

Choose the most correct answer from those given and colour in the dot of the corresponding letter next to the question number on the optical card. Please use a pencil on the optical card and make sure your surname and student number is filled in correctly.

1. A kilowatt hour is a unit of:

- A) power                      B) energy/time                      C) energy  
D) power/time                      E) force/distance

2. A sledge (including load) weighs 6000 N. It is pulled on level snow by a dog team exerting a horizontal force on it. The coefficient of kinetic friction between sledge and snow is 0.05. How much work is done by the dog team pulling the sledge for a 1000 m at constant speed?

- A) 0 J                      B)  $1.5 \times 10^2$  J                      C)  $3.0 \times 10^2$  J  
D)  $2.0 \times 10^6$  J                      E)  $3.0 \times 10^6$  J

3. A 50.0-kg cart is moving horizontally at 6.0 m/s. In order to change its speed to 12.0 m/s, the net work done on the cart must be:

- A) 0 J                      B) 450 J                      C) 900 J                      D) 2700 J                      E) 3600 J

4. A good example of kinetic energy is provided by:

- A) a wound up clock spring  
B) the raised weights of a grandfather's clock  
C) a tornado  
D) a gallon of gasoline  
E) an automobile storage battery

5. For a block of mass  $m$  to slide without friction up the rise of height  $h$  shown, it must have a minimum initial kinetic energy of:

- A)  $\mu h$   
B)  $\mu gh$   
C)  $\mu h/2$   
D)  $\mu gh/2$   
E)  $2\mu gh$



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## **Table of Contents Physical Science Trial Exam Paper 1 2014**

1. Understanding the eBook Physical Science Trial Exam Paper 1 2014
  - The Rise of Digital Reading Physical Science Trial Exam Paper 1 2014
  - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Trial Exam Paper 1 2014
  - 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 Physical Science Trial Exam Paper 1 2014
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Trial Exam Paper 1 2014
  - Personalized Recommendations

- Physical Science Trial Exam Paper 1 2014 User Reviews and Ratings
- Physical Science Trial Exam Paper 1 2014 and Bestseller Lists
- 5. Accessing Physical Science Trial Exam Paper 1 2014 Free and Paid eBooks
  - Physical Science Trial Exam Paper 1 2014 Public Domain eBooks
  - Physical Science Trial Exam Paper 1 2014 eBook Subscription Services
  - Physical Science Trial Exam Paper 1 2014 Budget-Friendly Options
- 6. Navigating Physical Science Trial Exam Paper 1 2014 eBook Formats
  - ePub, PDF, MOBI, and More
  - Physical Science Trial Exam Paper 1 2014 Compatibility with Devices
  - Physical Science Trial Exam Paper 1 2014 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physical Science Trial Exam Paper 1 2014
  - Highlighting and Note-Taking Physical Science Trial Exam Paper 1 2014
  - Interactive Elements Physical Science Trial Exam Paper 1 2014
- 8. Staying Engaged with Physical Science Trial Exam Paper 1 2014
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Physical Science Trial Exam Paper 1 2014
- 9. Balancing eBooks and Physical Books Physical Science Trial Exam Paper 1 2014
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Physical Science Trial Exam Paper 1 2014
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Science Trial Exam Paper 1 2014
  - Setting Reading Goals Physical Science Trial Exam Paper 1 2014
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Science Trial Exam Paper 1 2014
  - Fact-Checking eBook Content of Physical Science Trial Exam Paper 1 2014

- 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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