

## A-LEVEL PHYSICS

### Practice Paper 1

## MARK SCHEME

Maximum marks: 85

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## Section A

- 1**
- (a) (i) any two eg proton, neutron ✓✓ **2**
- (ii)  $u\bar{d}$  ✓ **1**
- (b) (i) contains a strange quark  
or longer half life than expected  
or decays by weak interaction ✓ **1**
- (ii) the second one because lepton number is not conserved ✓ **2**
- lepton num:  $\mu^- = +1$ ,  $\nu_\mu = +1$ ,  $\nu_e = 0$ ,  $\nu_\tau = 0$ ,  $\nu_\mu = 0$ ,  $\nu_e = -1$ ,  $\nu_\tau = -1$   $\therefore 1 + 1 = 2$
- (c) (i) weak (int.  $\nu_e = 0$ ) ✓ **1**
- (ii) X must be a lepton ✓ **2**
- baryon number on right hand side is +1 ✓
- [Total 9 marks]**
- 2**
- (a) (i) (moment =  $520 \times 0.26$ ) = 140 (135.2) ✓ **2**
- Nm** ✓
- (ii) **180 x 0.41 and 0.63 X seen** ✓ **3**
- $135.2 = 180 \times 0.41 + 0.63 X$  ✓
- ecf from (a)(i)*
- $(X = (135.2 - 73.8) / 0.63)$
- $= 97$  ✓ (N) (97.46)
- allow 105 from use of 140Nm ecf from (a)(i)*
- (iii)  $(520 - (180 + 97.46))$  **1**
- $= 240$  ✓ (242.5 N)
- ecf (or from correct moments calculation)*
- [Total 6 marks]**

# Igcse Physics Jan 2014 Mark Scheme

**Roman Wölfel**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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## **Table of Contents Igcse Physics Jan 2014 Mark Scheme**

1. Understanding the eBook Igcse Physics Jan 2014 Mark Scheme
  - The Rise of Digital Reading Igcse Physics Jan 2014 Mark Scheme
  - Advantages of eBooks Over Traditional Books
2. Identifying Igcse Physics Jan 2014 Mark Scheme
  - 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 Igcse Physics Jan 2014 Mark Scheme
  - User-Friendly Interface
4. Exploring eBook Recommendations from Igcse Physics Jan 2014 Mark Scheme
  - Personalized Recommendations
  - Igcse Physics Jan 2014 Mark Scheme User Reviews and Ratings
  - Igcse Physics Jan 2014 Mark Scheme and Bestseller Lists

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