

**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 ✓ lepton number LHS = 0 RHS $-1 + -1 = -2$ ✓	2
	(c)	(i)	weak (interaction) ✓	1
		(ii)	X must be a baryon ✓ baryon number on right hand side is +1 ✓	2
[Total 9 marks]				
2	(a)	(i)	(moment = $520 \times 0.26$ ) = 140 (135.2) ✓ Nm ✓	2
		(ii)	180 x 0.41 and 0.63 X seen ✓ $135.2 = 180 \times 0.41 + 0.63 X$ ✓ 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)	3
	(b)		( $520 - (180 + 97.46)$ ) = 240 ✓ (242.5 N) ecf (or from correct moments calculation)	1
[Total 6 marks]				

# Igcse Physics Mark Scheme Paper 1

**Thomas Bond,Chris Hughes**



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## **Table of Contents Igcse Physics Mark Scheme Paper 1**

1. Understanding the eBook Igcse Physics Mark Scheme Paper 1
  - The Rise of Digital Reading Igcse Physics Mark Scheme Paper 1
  - Advantages of eBooks Over Traditional Books
2. Identifying Igcse Physics Mark Scheme Paper 1
  - 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 Mark Scheme Paper 1
  - User-Friendly Interface
4. Exploring eBook Recommendations from Igcse Physics Mark Scheme Paper 1
  - Personalized Recommendations
  - Igcse Physics Mark Scheme Paper 1 User Reviews and Ratings
  - Igcse Physics Mark Scheme Paper 1 and Bestseller Lists
5. Accessing Igcse Physics Mark Scheme Paper 1 Free and Paid eBooks
  - Igcse Physics Mark Scheme Paper 1 Public Domain eBooks

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