

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 = 520×0.26) = 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
	(ii)		($520 - (180 + 97.46)$) = 240 ✓ (242.5 N) ecf (or from correct moments calculation)	1
[Total 6 marks]				

Igcse Physics 2013 Mark Scheme 5ph

Clemens Wendtner



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Table of Contents Igcse Physics 2013 Mark Scheme 5ph

1. Understanding the eBook Igcse Physics 2013 Mark Scheme 5ph
 - The Rise of Digital Reading Igcse Physics 2013 Mark Scheme 5ph
 - Advantages of eBooks Over Traditional Books
2. Identifying Igcse Physics 2013 Mark Scheme 5ph
 - 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 2013 Mark Scheme 5ph
 - User-Friendly Interface
4. Exploring eBook Recommendations from Igcse Physics 2013 Mark Scheme 5ph
 - Personalized Recommendations
 - Igcse Physics 2013 Mark Scheme 5ph User Reviews and Ratings
 - Igcse Physics 2013 Mark Scheme 5ph and Bestseller Lists
5. Accessing Igcse Physics 2013 Mark Scheme 5ph Free and Paid eBooks
 - Igcse Physics 2013 Mark Scheme 5ph Public Domain eBooks
 - Igcse Physics 2013 Mark Scheme 5ph eBook Subscription Services
 - Igcse Physics 2013 Mark Scheme 5ph Budget-Friendly Options
6. Navigating Igcse Physics 2013 Mark Scheme 5ph eBook Formats
 - ePub, PDF, MOBI, and More
 - Igcse Physics 2013 Mark Scheme 5ph Compatibility with Devices
 - Igcse Physics 2013 Mark Scheme 5ph Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Igcse Physics 2013 Mark Scheme 5ph
 - Highlighting and Note-Taking Igcse Physics 2013 Mark Scheme 5ph
 - Interactive Elements Igcse Physics 2013 Mark Scheme 5ph

8. Staying Engaged with Igcse Physics 2013 Mark Scheme 5ph
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Igcse Physics 2013 Mark Scheme 5ph
9. Balancing eBooks and Physical Books Igcse Physics 2013 Mark Scheme 5ph
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Igcse Physics 2013 Mark Scheme 5ph
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Igcse Physics 2013 Mark Scheme 5ph
 - Setting Reading Goals Igcse Physics 2013 Mark Scheme 5ph
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Igcse Physics 2013 Mark Scheme 5ph
 - Fact-Checking eBook Content of Igcse Physics 2013 Mark Scheme 5ph
 - 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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