

## 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.  $\nu_e + \nu_\mu = 0$ ) ✓ **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]**

# Jan 2013 Aqa Dmark Scheme

**Raffaela Di Napoli**



**Jan 2013 Aqa Dmark Scheme:**

## **Jan 2013 Aqa Dmark Scheme** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has been evident than ever. They have the ability to inspire, provoke, and ignite change. Such is the essence of the book **Jan 2013 Aqa Dmark Scheme**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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may be raised by 1 5 1 6 while it identifies that dead loads are much nearer to what has been computed dead loads are  
multiplied by 1 2