

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: $\mu^- = +1$ $S = 0$ $P^+ = 0$ $\nu_e = 0$ $1 + 0 + 0 = 1$
 $\mu^- \rightarrow e^- + \nu_\mu + \bar{\nu}_e$ $1 + 0 + 0 = 1$
- (c) (i) weak (int. $\mu^- \rightarrow e^- + \nu_\mu + \bar{\nu}_e$) ✓ 1
- (ii) X must be a lepton ✓ 2
- baryon number on right hand side is +1 ✓
- [Total 9 marks]**
- 2 (a) (i) (moment = 520×0.26) = 140 (135.2) ✓ 2
- Nm** ✓ 2
- (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]**

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AQA A-Level Physics Student Guide 3: Sections 6-8 Ian Lovat,2016-03-25 Written by experienced teacher Ian Lovat this Student Guide for Physics Identifies the key content you need to know with a concise summary of topics examined in the A level specifications Enables you to measure your understanding with exam tips and knowledge check questions with answers at the end of the guide Helps you to improve your exam technique with sample answers to exam style questions Develops your independent learning skills with content you can use for further study and research *13+ Science Level 2 Physics Mark Scheme (Autumn Term 2013)* Iseb Iseb,2013-09-26 **13+ Science Level 2 Physics Mark Scheme (Spring Term 2013)** Iseb Iseb,2012-12-01 **13+ Science Level 2 Physics Mark Scheme (Summer Term 2013)** Iseb Iseb,2013-03-21

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wear and tear are very less its life is too high but the problem with this mechanism is that it can be exact only at three positions which is midpoint and the other two position which is extreme right an extreme left but this is

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