

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

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Jin-Ying Zhang



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