

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 Jan 14 Marks Scheme

Yi-Tong Ma

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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