

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]				

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