

A-LEVEL PHYSICS

Practice Paper 1

MARK SCHEME

Maximum marks: 85

View detailed guidance on the conclusions you can draw from your students' performance in these papers on the MERIT welcome page. Understand how your students compare with others and target revision effectively by entering marks into MERIT.

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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