Question Number	Answer		Mark
11(a)	Opposite charge **Or** Opposite lepton number Do not allow Lepton number of an electron = –1 Do not allow charge of an electron = +1	**(1)**	**1**
11(b)	Charge of particles shown: –1, –1, 0, 0 Lepton number of particles shown: 1, 1 ,1, –1 Charge conserved **and** lepton number conserved, so possible **Or** But muon lepton number: 1 does not = –1, not obeyed, so not possible **Or** But electron lepton number: 0 does not = 1+1, not obeyed, so not possible	**(1)** **(1)** **(1)**	**3**
	Total for question 11		**4**