3	Nuclea	r fus	ion is a process that occurs in the core of stars.	
	(a) Wh	ich	s the best description of nuclear fusion?	(4)
				(1)
	$\times$		large nucleus splitting into two smaller nuclei	
	$\times$		nucleus emitting an electromagnetic wave	
	×	C	nucleus releasing a beta particle	
	X	D	two smaller nuclei joining together to form a larger nucleus	
	(b) Two	o nu	clei are close together and stationary.	
	Exp	lain	why these nuclei will move apart.	
	•			(2)
	(c) Des	scrib	e the conditions needed for fusion to occur in the core of a star.	
				(2)
	(Total for Question 3 = 5 marks)			

