

Question Number	Answer	Mark
13	(Very) high temperatures are needed to give hydrogen/nuclei/protons enough <u>kinetic</u> energy to overcome the repulsive force (between charges). (1)	
	High densities are needed to enable a high enough collision rate (of nuclei to sustain the fusion reactions) Or High densities are needed to enable a high collision rate (of nuclei) in order to sustain the fusion reactions (1)	
	If the material/plasma undergoing fusion (on Earth) were to touch the container the temperature would decrease and fusion would stop Or If the material/plasma undergoing fusion (on Earth) were to touch the container then the container would melt (and containment cease) (1)	
	(On Earth) strong magnetic fields are required because there are containment problems for a material undergoing fusion. (1)	
	Total for question 13	4