Question number	Answer	Notes	Marks
4 (a)	A (blue-white); B is incorrect because orange stars are cooler than blue is incorrect because red stars are cooler than blue. D is incorrect because yellow stars are cooler than blue.	white stars	1
(b)	any two from: gas collapses / gas particles attract each other; temperature (of the gas) increases; fusion starts/eq;	condone 'dust' for 'gas' allow particles increase in <u>K</u> E	2
(c)	two (small) nuclei; join together (to produce a large nucleus); releasing energy;	allow gamma radiation	3
(d) (i) (ii)	C (mass); A is incorrect because colour is determined by the sur B is incorrect because distance determines its appare D is incorrect because temperature determines the spany three from: MP1. Rigel will become a red supergiant; MP2. then contracts rapidly; MP3. (explodes as a supernova) leaving a neutron star;	nt brightness	3
	MP4. (or) black hole;		

Total for Question 4 = 10 marks