	Question number		Answer	Notes	Marks
1	(a)	(i)	B - main sequence stars; A is not correct as black holes do not appear on the HR diagram C is not correct as neutron stars are not part of the main sequence. D is not correct as protostars are not part of the main sequence		1
		(ii)	bottom left area of the HR diagram;	unlabelled scores 0	1
		(iii)	top right hand area of HR diagram; red giants main sequence white dwarfs	unlabelled scores 0	1
		(iv)	a measure of brightness/luminosity; idea that a star would be at a standard distance (10 parsecs/32(.6) light years);	accept power ignore lack of or incorrect value for distance	2
	(b)	(i) (ii)	C - ultraviolet; A is not correct as microwaves cause internal heating B is not correct as radio waves do not give skin burns D is not correct as visible light cannot harm skin cells. A - sunbathing;		1
			B, C and D are not correct as all reduce the absorption of UV by skin.	Total for Question 1: 7	

Total for Question 1: 7 marks