

Question number	Answer	Notes	Marks
1 a i	Any two from – Radio; Microwaves; Infrared; Visible;		2
ii	Microwaves; Infrared;		2
b	D Increasing wavelength		1
c i	(wave) speed = frequency x wavelength		1
ii	Substitution into correct equation; Evaluation; Unit; Eg. (wave) speed = 200 000 x 1500 300 000 000 m/s	Accept equivalent Accept recognised symbols mark unit and calc independently Power Of Ten error = -1 e.g. not converting kHz to Hz Accept <ul style="list-style-type: none"> • bald answer • answer in SF • alternative speed units with corresponding evaluation e.g. 300 000 km/s 1.08 x 10¹² km/hour 	3

(Total for Question 1 = 9 marks)