

Question number	Answer	Notes	Marks
7 (a)	(Current / Electron/particle movement) in a single direction;		1
(b) (i)	ANY SUITABLE, e.g. Travel quickly / at the speed of light; Can code information; Can travel long distances / through buildings / walls / objects; Not harmful/dangerous; can diffract / reflect;		1
(ii)	(microwaves) use - communication / cooking ; harmful effect - heating ; (ultraviolet) use - fluorescent lamps / kill bacteria / harden fillings ; harmful effect - <u>skin</u> cancer / eye damage / sunburn;	ALLOW correct alternatives	4
(c)	ANY FIVE RELEVANT POINTS, e.g. current in coil; changing current/alternating current; produces magnetic field; (constantly) changing (field); which interacts with field of permanent magnet / reference to Fleming's LHR; force on coil /coil moves; vibration in (coil / cone / air); making longitudinal wave;	DO NOT ALLOW 'coil spins'	5
		Total	11