Question number			Answer	Notes	Marks
	(a)		gravity		1
	(b)	(i)	6960 (km)		1
		(ii)	equation quoted (NO MARK) conversion of km OR min; $v = (2 \times \pi \times 6960000) / (96 \times 60)$;	ECF on (i)	3
	(c)		EITHER grav pe reduces when closer; (so) ke increases; because total energy conserved; OR gravitational attraction / field strength increases when closer; mass remains constant; so accelerates;	Allow for rounding errors Grav force increases so ke increases = 1 (mixing arguments) REJECT 'gravity higher' 'gravity stronger' ACCEPT 'pull of gravity' 'force of gravity'	3
	(d)	(i)	electromagnetic (spectrum)	Accept transverse (waves)	1
		(ii)	Any two from X-rays have shorter wavelength; ORA X-rays have higher frequency; ORA X-rays have higher energy; ORA X-rays have greater penetration range; ORA X-rays have greater effects on living tissue; ORA	Idea of comparison must be there REJECT 'visible light can be seen' / eq	2