

## Component 6- Physics: Electricity, magnetism and waves

Question	Answers	Additional Guidance	Mark
1 (a)	Circuit C		1
(b)	ammeter		1
2	50 hertz		1
3 (a)	Brown		1
(b)	Fuse		1
(c)	melts/breaks if the current is too large		1
4 (a)	The toaster		1
(b)	1		1
5	They will repel each other.		1
6 (a)	anywhere on the core		1
(b)	eg relay, door chimes, scrapyard crane		1
7 (a)	transverse wave		1
(b)	oscilloscope	accept any correct response eg slinky / water / rope / trace	1
(c)	<b>N</b>		1
(d)	<b>L</b>		1
8 (a)	Light / visible		1
(b)	Microwaves or radio waves		1
9	Ultraviolet rays → Can cause skin cancer		1
	X-rays → Used to detect broken bones		1
	Microwaves → Used for mobile phone communication		1
<b>Total</b>			<b>20</b>