

Question	Answer	Marks	Guidance
1 (a)	microwaves from the transmitter are polarised (or vibrate in a certain plane or direction)	1	XY is the axis of the system and you can imagine the transmitter being rotated about this axis from a vertical to a horizontal position. The receiver detects microwaves that are polarised in a particular plane. Originally the plane of polarisation of the microwaves must have coincided with this plane.
	rotating the transmitter rotates the plane of polarisation of the microwaves	1	
	received signal becomes zero when receiver is perpendicular to the plane of polarisation of the microwaves	1	
1 (b) (i)	use of $c = f \lambda$ gives $f = \frac{c}{\lambda} = \frac{3.0 \times 10^8}{0.12}$ $= 2.5 \times 10^9$ Hz	1	Microwaves are electromagnetic waves; they travel at the speed of light.
		1	
1 (b) (ii)	any food at nodes would not be heated because there is no energy (or intensity, amplitude, vibrations) at the nodes	1	This is why microwave ovens contain a rotating turntable, and/or a rotating reflector, to ensure that any object placed in them receives microwaves from more than one direction.
		1	
2 (a) (i)	angle F is a critical angle	1	The critical condition arises when the refracted ray travels along the boundary between two media.
2 (a) (ii)	angle D is greater than angle B (or ray R ₁ refracts away from the normal at the glass-water boundary)	1	You may need to use a ruler on the diagram to notice that this ray changes direction, because the bending effect is slight.
2 (b) (i)	use of $\sin \theta_c = \frac{n_2}{n_1}$ gives $\sin 48.8^\circ = \frac{1}{n_{\text{water}}}$ refractive index of water $n_w = 1.33$	1	At the start of this calculation, you are forced to find n_{water} from angle F, because you are not given the refractive index value for the glass. You should know that the refractive index of air is taken to be 1.00.
		1	
2 (b) (ii)	$n = \frac{c}{c_s}$ gives $\frac{c_{\text{water}}}{c_{\text{glass}}} = \frac{n_{\text{glass}}}{n_{\text{water}}} = \frac{\sin \theta_{\text{water}}}{\sin \theta_{\text{glass}}}$ $= \frac{\sin 48.8}{\sin 42.9}$ $= 1.11$	1	Refractive index is a ratio of the speed of waves in different media, not just a ratio of sines. This rearrangement follows from $n_1 \sin \theta_1 = n_2 \sin \theta_2$.
		1	The small difference in these speeds is the cause of the slight bending noted in (a) (ii).
		1	
2 (c)	ray R ₂ has a greater angle of refraction in the water than angle D and undergoes total internal reflection at the water-air boundary	1	The continuation includes the ray meeting the top boundary on the diagram. There is total internal reflection here because the angle of incidence for this ray will be greater than the critical angle (F).
		1	

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