

Multiple Choice Answers

Q28: D

Multiple Choice Answers

Q26: B

4(a)	wave passing through gap / aperture
	(wave) spreads (out)
4(b)(i)	$n\lambda = d \sin \theta$
	$\theta = \sin^{-1} [(540 \times 10^{-9}) / (5.0 \times 10^{-6})] = 6.2^\circ$
4(b)(ii)	$\theta = 12^\circ$
4(b)(iii)	peaks / maxima shown at $\theta = 0, \pm 6^\circ$ and $\pm 12^\circ$
	peaks / maxima and zero intensity in between
	central peak / maxima at intensity I_0 and the other peaks all equal to or less than I_0
4(c)	peaks / maxima all at the same angles (as before)
	intensity (of all peaks / maxima) halved

Multiple Choice Answers

Q30: D

Multiple Choice Answers

Q26: A

Multiple Choice Answers

Q28: C