

Page 3	Mark Scheme GCE AS/A LEVEL – May/June 2013	Syllabus 9702	Paper 21
	(b) (i) kinetic energy = $\frac{1}{2}mv^2$ = $\frac{1}{2} \times 0.150 \times (25)^2$ = 46.875 = 47 J		C1 C1 A1 [2]
	(ii) 1. potential energy (= mgh) = $0.150 \times 9.81 = 21$ loss = KE = mgh = 46.875 – (30.9) = 15.97 = 16 J		C1 C1 A1 [3]
	2. work done = 16 J work done = force $\times$ distance $F = 16 / 21 = 0.76$ N		C1 A1 [2]
4	(a) pressure = force / area (normal to force)		A1 [1]
	(b) molecules/atoms/particles in (constant) random/haphazard motion molecules have a change in momentum when they collide with (the walls) (force exerted on molecules) therefore force on the walls reference to average force from many molecules/many collisions		B1 M1 A1 A1 [4]
	(c) elastic collision when kinetic energy conserved temperature constant for gas		B1 B1 [2]
5	(a) waves overlap / meet / superpose coherence / constant phase difference (not constant $\lambda$ or frequency) path difference = 0, $\lambda$ , 2 $\lambda$ or phase difference = 0, 2 $\pi$ , 4 $\pi$ same direction of polarisation/unpolarised		(B1) (B1) (B1) (B1) max. 3 [3]
	(b) $\lambda = v / f$ $f = 12 \times 10^6$ Hz $\lambda = 3 \times 10^7 / 12 = 10^6$ (any subject) = 0.025 m		C1 C1 M1 AO [3]
	(c) maximum at P six(ge) minima or maxima between Q and P 5 maxima / 6 minima between Q and P or 7 maxima / 6 minima including Q and P		B1 B1 B1 [3]
	(d) slits made narrower slits put closer together (not just make slits smaller) Allow tilting the slits M1 and explanation of axes of rotation A1		B1 B1 [2]

# 4024 S13 Ms 12 Max Papers

**Padhraic Smyth**



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