

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) = $0.150 \times 9.81 \times 21$ loss = KE = mgh = 46.875 = (30.5) = 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 λ or frequency) path difference = 0, λ , 2λ or phase difference = 0, 2π , 4π same direction of polarisation/unpolarised	(B1) (B1) (B1) (B1) max. 3	[3]
(b) (i)	$\lambda = v / f$ $f = 12 \times 10^6$ Hz $\lambda = 3 \times 10^3 / 12 \times 10^6$ (any subject) = 0.025 m	C1 C1 M1 AO	[3]
(c)	maximum at P several 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]

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