

Page 3	Mark Scheme	Syllabus	Paper
	GCE A/AS LEVEL – October/November 2008	9702	04
(c) (i)	$v = \omega r$ $= 28.3 \times 11 \times 10^{-3}$ $= 0.31 \text{ m s}^{-1}$ (do not allow 1 s.f.)	C1 A1	[2]
(ii)	$v = \omega \sqrt{a^2 - y^2}$ $y = 3 \text{ mm}$ $= 28.3 \times 10^{-3} \sqrt{11^2 - 3^2}$ $= 0.30 \text{ m s}^{-1}$ (allow 1 s.f.)	C1 C1 A1	[3]
4 (a)	$\Delta U = q + w$ (allow correct word equation)	B1	[1]
(b)	either kinetic energy constant because temperature constant potential energy constant because no intermolecular forces so no change in internal energy or kinetic energy and potential energy both constant (M1) so no change in internal energy (A1) reason for either constant k.e. or constant p.e. given (A1)	M1 M1 A1	[3]
5 (a)	change/loss in kinetic energy = change/gain in electric potential energy $2 \times \frac{1}{2}mv^2 = q^2 / 4\pi\epsilon_0 r$ $2 \times \frac{1}{2} \times 2 \times 1.67 \times 10^{-27} \times v^2$ $= (1.6 \times 10^{-19})^2 / (4\pi \times 8.85 \times 10^{-12} \times 1.1 \times 10^{-14})$ $v = 2.5 \times 10^6 \text{ m s}^{-1}$	B1 C1	
(b)	$pV = \frac{1}{2}Nm\langle c^2 \rangle$ and $pV = NkT$ $\frac{1}{2}m\langle c^2 \rangle = \frac{3}{2}kT$ (award 1 mark of first two if $\langle c^2 \rangle$ not used) $\frac{1}{2} \times 2 \times 1.67 \times 10^{-27} \times (2.5 \times 10^6)^2 = \frac{3}{2} \times 1.38 \times 10^{-23} \times T$ $T = 5 \times 10^8 \text{ K}$	C1 C1 C1 A1	[4]
(c)	e.g. this is <u>very</u> high temperature temperature found in stars. (any sensible comment, 1 mark) (if $T < 10^8 \text{ K}$, should comment that too low for fusion to occur)	B1	[1]
6 (a) (i)	either prevent loss of magnetic flux or improves flux linkage with secondary	B1	[1]
(ii)	<u>reduces</u> eddy current (losses) <u>reduces</u> losses of energy (in core)	B1 B1	[2]
(b) (i)	(induced) e.m.f. proportional to / equal to rate of change of (magnetic) flux (linkage)	M1 A1	[2]
(ii)	changing current in primary gives rise to (1) changing flux in core (1) flux links with the secondary coil (1) changing flux in secondary coil, inducing e.m.f. (1)		

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WJ Hussar



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