

Page 4	Mark Scheme	Syllabus	Paper
	GCE AS/A LEVEL – May/June 2013	9702	43
5	<p>(a) (uniform magnetic) flux normal to long (straight) wire carrying a current of 1 A (creates) force per unit length of <math>1 \text{ N m}^{-1}</math></p> <p>(b) (i) flux density <math>= 4\pi \times 10^{-7} \times 1.5 \times 10^3 \times 3.5</math>  <math>= 6.6 \times 10^{-3} \text{ T}</math></p> <p>(ii) flux linkage <math>= 6.6 \times 10^{-3} \times 28 \times 10^{-4} \times 160</math>  <math>= 3.0 \times 10^{-3} \text{ Wb}</math></p> <p>(c) (i) (induced) e.m.f. proportional to rate of change of (magnetic) flux (linkage)</p> <p>(ii) e.m.f. <math>= (2 \times 3.0 \times 10^{-3}) / 0.80</math>  <math>= 7.4 \times 10^{-3} \text{ V}</math></p>	<p>M1 A1 [2]</p> <p>C1 A1 [2]</p> <p>C1 A1 [2]</p> <p>M1 A1 [2]</p> <p>C1 A1 [2]</p>	
6	<p>(a) (i) to reduce power loss in the core due to eddy currents/induced currents</p> <p>(ii) either no power loss in transformer or input power = output power</p> <p>(b) either r.m.s. voltage across load <math>= 9.0 \times (8100 / 300)</math>  peak voltage across load <math>= \sqrt{2} \times 243</math>  <math>= 340 \text{ V}</math>  or peak voltage across primary coil <math>= 9.0 \times \sqrt{2}</math>  peak voltage across load <math>= 12.7 \times (8100/300)</math>  <math>= 340 \text{ V}</math></p>	<p>B1 B1 [2]</p> <p>B1 [1]</p> <p>C1 A1 (C1) (A1) [2]</p>	
7	<p>(a) (i) lowest frequency of e.m. radiation giving rise to emission of electrons (from the surface)</p> <p>(ii) <math>E = hf</math>  threshold frequency <math>= (9.0 \times 10^{-19}) / (6.63 \times 10^{-34})</math>  <math>= 1.4 \times 10^{15} \text{ Hz}</math></p> <p>(b) either <math>300 \text{ nm} \equiv 10 \times 10^{15} \text{ Hz}</math> (and <math>600 \text{ nm} \equiv 5.0 \times 10^{14} \text{ Hz}</math>)  or <math>300 \text{ nm} \equiv 6.6 \times 10^{-19} \text{ J}</math> (and <math>600 \text{ nm} \equiv 3.3 \times 10^{-19} \text{ J}</math>)  or zinc <math>\lambda_0 = 340 \text{ nm}</math>, platinum <math>\lambda_0 = 220 \text{ nm}</math> (and sodium <math>\lambda_0 = 520 \text{ nm}</math>)  emission from sodium and zinc</p> <p>(c) each photon has larger energy  fewer photons per unit time  fewer electrons emitted per unit time</p>	<p>M1 A1 [2]</p> <p>C1 A1 [2]</p> <p>M1 A1 [2]</p> <p>M1 M1 A1 [3]</p>	

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**Keith Pledger**



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