

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

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