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 $= 4\pi \times 10^{-7} \times 1.5 \times 10^{3} \times 3.5$ $= 6.6 \times 10^{-3}$ T	C1 A1	[2]
		(ii)	flux linkage $= 6.6 \times 10^{-3} \times 28 \times 10^{-4} \times 160$ $= 3.0 \times 10^{-3}$ 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. $= (2 \times 3.0 \times 10^{-3}) / 0.80$ $= 7.4 \times 10^{-3}$ 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 $= \sqrt{2} \times 243$ $= 340$ V	C1 A1	[2]
			or peak voltage across primary coil $= 9.0 \times \sqrt{2}$ peak voltage across load $= 12.7 \times (8100/300)$ $= 340$ 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 $= (9.0 \times 10^{-19}) / (6.63 \times 10^{-34})$ $= 1.4 \times 10^{15}$ Hz	C1 A1	[2]
	(b)		*either* 300 nm ≡ 10×10^{15} Hz (and 600 nm ≡ 5.0×10^{14} Hz) *or* 300 nm ≡ 6.6×10^{-19} J (and 600 nm ≡ 3.3×10^{-19} J) *or* zinc $\lambda_0 = 340$ nm, platinum $\lambda_0 = 220$ nm (and sodium $\lambda_0 = 520$ nm) emission from sodium <u>and</u> 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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