5 (a) (uniform magnetic) flux normal to long (straight) wire carrying a current of 1 A   M1
(creates) force per unit length of $1 \, \text{N m}^{-1}$ A1   [2]

(b) (i) flux density $= 4\pi \times 10^{-7} \times 1.5 \times 10^{3} \times 3.5$ C1
        $= 6.6 \times 10^{-3} \, \text{T}$ A1   [2]

(ii) flux linkage $= 6.6 \times 10^{-3} \times 28 \times 10^{-4} \times 160$ C1
           $= 3.0 \times 10^{-3} \, \text{Wb}$ A1   [2]

(c) (i) (induced) e.m.f. proportional to rate of   M1
change of (magnetic) flux (linkage)   A1   [2]

(ii) e.m.f. $= (2 \times 3.0 \times 10^{-3}) / 0.80$ C1
       $= 7.4 \times 10^{-3} \, \text{V}$ A1   [2]

6 (a) (i) to reduce power loss in the core   B1
due to eddy currents/induced currents   B1   [2]

(ii) either   no power loss in transformer
     or   input power = output power   B1   [1]

(b) either   r.m.s. voltage across load $= 9.0 \times (8100 / 300)$ C1
          peak voltage across load $= \sqrt{2} \times 243$
                            $= 340 \, \text{V}$ A1   [2]
     or   peak voltage across primary coil $= 9.0 \times \sqrt{2}$ (C1)
             peak voltage across load $= 12.7 \times (8100/300)$
                              $= 340 \, \text{V}$ (A1)

7 (a) (i) lowest frequency of e.m. radiation   M1
giving rise to emission of electrons (from the surface)   A1   [2]

(ii) $E = hf$ C1
threshold frequency $= (9.0 \times 10^{-19}) / (6.63 \times 10^{-34})$
                      $= 1.4 \times 10^{15} \, \text{Hz}$ 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 $\lambda_0 = 520 \, \text{nm}$)   M1
emission from sodium <u>and</u> zinc   A1   [2]

(c) each photon has larger energy   M1
fewer photons per unit time   M1
fewer electrons emitted per unit time   A1   [3]

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