

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 (C1)	[2]
	or peak voltage across primary coil $= 9.0 \times \sqrt{2}$ peak voltage across load $= 12.7 \times (8100/300)$ $= 340 \text{ V}$	(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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question examine the following molecules what patterns do you see in the bonding of

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web the two polar bears or penguins are equal in electronegativity therefore they pull electrons equally as hard and neither one will end up with more electrons more of the time 4 a what 3 types of bonds are represented on the third page of the comic book nonpolar covalent polar covalent and ionic b

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web answer because the two polar bears or penguins have equal electronegativity they will pull electrons equally hard and in most cases neither will end up with more electrons each polar bear and penguin has an electronegativity of the same value a non polar bond is formed when two polar bears or two penguins are bonded together

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web to answer this question you will examine 1 electronegativity 2 nonpolar vs polar molecules 3 electronegativity and bonding electronegativity the h atom and the cl atom in hydrogen chloride

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web 1 how does the comic strip define a polar molecule 2 define electronegativity as you understand it after reading the first two pages of the comic strip 3 what is the artist trying to represent by two polar bears arm wrestling or two penguins arm wrestling 4 what three types of bonds are represented on the third page of the comic strip

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web so the final representation of the NH_3 molecule using polar bears and penguins is as follows begin array c text polar bear nitrogen text with two lone pairs of electrons text and three penguins hydrogen end array this is a fun and creative way to represent the NH_3 molecule

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web polar bears and penguins purpose in this lesson you will be exploring polarity and bonding between atoms in greater detail a comic book will provide new information about these topics and will introduce you to the concept of electronegativity which helps us understand partial charges