

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} (b) (i) flux density $= 4\pi \times 10^{-7} \times 1.5 \times 10^3 \times 3.5$ $= 6.6 \times 10^{-3} \text{ T}$ (ii) flux linkage $= 6.6 \times 10^{-3} \times 28 \times 10^{-4} \times 160$ $= 3.0 \times 10^{-3} \text{ Wb}$ (c) (i) (induced) e.m.f. proportional to rate of change of (magnetic) flux (linkage) (ii) e.m.f. $= (2 \times 3.0 \times 10^{-3}) / 0.80$ $= 7.4 \times 10^{-3} \text{ V}$	M1 A1 [2] C1 A1 [2] C1 A1 [2] M1 A1 [2] C1 A1 [2]	
6	(a) (i) to reduce power loss in the core due to eddy currents/induced currents (ii) either no power loss in transformer or input power = output power (b) either r.m.s. voltage across load $= 9.0 \times (8100 / 300)$ peak voltage across load $= \sqrt{2} \times 243$ $= 340 \text{ V}$ or peak voltage across primary coil $= 9.0 \times \sqrt{2}$ peak voltage across load $= 12.7 \times (8100/300)$ $= 340 \text{ V}$	B1 B1 [2] B1 [1] C1 A1 (C1) (A1) [2]	
7	(a) (i) lowest frequency of e.m. radiation giving rise to emission of electrons (from the surface) (ii) $E = hf$ threshold frequency $= (9.0 \times 10^{-19}) / (6.63 \times 10^{-34})$ $= 1.4 \times 10^{15} \text{ Hz}$ (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 (c) each photon has larger energy fewer photons per unit time fewer electrons emitted per unit time	M1 A1 [2] C1 A1 [2] M1 A1 [2] M1 M1 A1 [3]	

Igcse Maths Ol 20november Mark Schemes

J Elliott



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Igcse Maths Ol 20november Mark Schemes: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have captivated audiences this year. The Must-Read : Colleen Hoovers "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Igcse Maths Ol 20november Mark Schemes : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Igcse Maths Ol 20november Mark Schemes : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papan, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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