

Question			Answer	M	Guidance
6	a	i	λ is the (de Broglie) wavelength <u>associated with a particle</u> h is (a constant known as) the Planck constant mv is the momentum/mass \times speed of <u>the particle</u>	B1 B1 B1	allow object/electron for particle accept velocity for speed accept m and v separately but the particle must appear with one of the quantities to score the mark
		ii	electrons passing through a (thin) sheet of graphite are diffracted producing rings/pattern (on a fluorescent screen)	B1 A1	any suitable situation NOT Au or Al, etc. what is observed + interpretation 1 mark. Do not award the A mark alone unless a plausible situation has been suggested. Young slits type experiments etc score 0/2
		iii 1	$eV = \frac{1}{2} mv^2$ $2eV/m = v^2$ so $v = \sqrt{(2 \times 1.6 \times 10^{-19} \times 5.0 \times 10^5 / 9.1 \times 10^{-31})}$ so $v = 1.3 \times 10^8 \text{ (m s}^{-1}\text{)}$	C1 C1 B1 A0	allow $eV = 8.0 \times 10^{-14} \text{ J}$ for 1 mark allow $\sqrt{(2 \times 8.0 \times 10^{-14} / 9.1 \times 10^{-31})}$ or evidence of correct calculation, e.g. $v = 1.325 \times 10^8$
		iii 2	$\lambda = h/mv = 6.63 \times 10^{-34} / 1.3 \times 10^8 \times 9.1 \times 10^{-31}$ $\lambda = 5.6 \times 10^{-12} \text{ (m)}$	C1 A1	allow 5.5×10^{-12} if 1.325×10^8 is used
		iii 3	λ of visible light $5.6 \times 10^{-7} \text{ m}$ so power of 10 = 5 or -5	B1 B1	ect all 2; accept 4 to $7 \times 10^{-7} \text{ m}$ NOT 10^{-7} NOT 10^5 on the answer line
	b		The photoelectric effect	B1	QWC mark allow exp't description: uv light shone on a zinc plate connected to a gle max 3 from 6 marking points
			individual photons are absorbed by individual electrons in the metal surface, i.e. one to one interaction.	B1	
			Only photons with energies above the work function energy will cause photoelectron emission/idea of threshold frequency	B1	
			Hence u-v photons or blue photons will cause photoemission but red photons will not.	B1	
			Number of electrons emitted depends on light intensity	B1	
			A wave model does not explain instantaneous emission of electrons.	B1	
			A wave model does not explain a threshold frequency/wavelength for emission to occur	B1	allow wave model does not explain no emission however bright the light if energy of photon below work function
			Total question 6	16	

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The Top Books of the Year Ocr Physics G482 June 2013 Mark Scheme The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped 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 triumph. Ocr Physics G482 June 2013 Mark Scheme : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Ocr Physics G482 June 2013 Mark Scheme : Delia Owens "Where the Crawdads Sing" This mesmerizing 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, captivating readers with its evocative prose and mesmerizing setting. These bestselling 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 captivating stories waiting to be discovered. The novel begins with Richard Papen, 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 an exceptional and thrilling novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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