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IGCSE A* MODEL ANSWER

0625 PHYSICS

May/June 2023

Paper 23



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21 Which component forms part of a D.C. motor but not a simple moving coil a.c. generator?

- A the coil
- B the brushes
- C the magnet
- D a splitting commutator



22 A transformer has 5000 turns on the primary coil and 500 turns on the secondary coil.

The output of the secondary coil is 110 V a.c. and is connected to a heater. The transformer is

100% efficient. — $P_d = P_{out} [13200] 13200$ $\frac{V_p}{V_s} = \frac{N_p}{N_s}$ $V_p = 1.100V$

The heater produces a power of 1320 W.

What is the current in the primary coil?

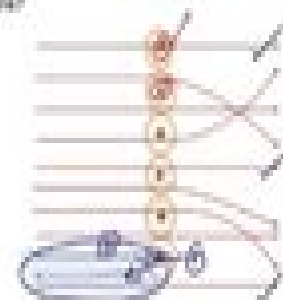
- A 11 A
- B 0.12 A
- C 11 A
- D 12 A

23 The scattering of alpha particles from a thin gold foil produces the following observations.

- Most of the alpha particles pass through the foil.
- Most of the alpha particles are virtually undeflected.
- A small fraction of the alpha particles are deflected through large angles.
- A very small fraction of the alpha particles bounce back from the foil.

Which conclusion does not follow from these observations?

- A Most of the mass of the gold atom is in its nucleus.
- B Most of the atom is empty space.
- C The nucleus consists of protons and neutrons.
- D The nucleus must be charged.



24 A nuclide of chlorine has the symbol shown.



Mst121 June 2013 Answer

C Cleary



Mst121 June 2013 Answer:

Mst121 June 2013 Answer: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have enthralled audiences this year. Mst121 June 2013 Answer : Colleen Hoover's "It Ends with Us" This poignant 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 prevail. Mst121 June 2013 Answer : Taylor Jenkins Reid's "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. Reid's absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Mst121 June 2013 Answer : 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 compelling 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 gripping novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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