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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.

$$P_s = P_{out} = 13200 \text{ W}$$

The heater produces a power of 13200 W.

What is the current in the primary coil?

- A 11 A B 1.12 A C 11 A D 12 A

$$\frac{V_p}{V_s} = \frac{N_p}{N_s} \quad V_p = 1.10 \text{ V}$$

$$\frac{110}{V_p} = \frac{500}{5000}$$

$$\frac{110}{V_p} = \frac{1}{10}$$

$$V_p = 1100 \text{ V}$$

$$P = I \times V$$

$$13200 = I \times 1100$$

$$I = \frac{13200}{1100} = 12 \text{ A}$$

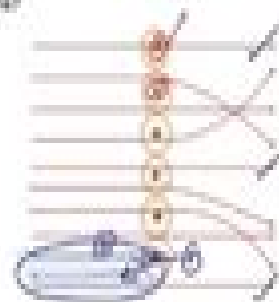
23 The scattering of alpha particles from a thin gold foil produces the following observations.

Calculate the percentage of alpha particles that are deflected through large angles.

- 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.



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RD Boyd



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