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11 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



12 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 132 W.

What is the current in the primary coil?

- A 1.1 A
- B 0.12 A
- C 11 A
- D 12 A

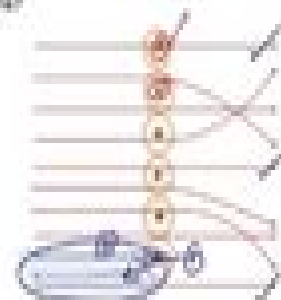
13 The scattering of alpha particles from a thin gold foil produces the following observations.

Calculated from table

- 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.



14 A nuclide of chlorine has the symbol shown.



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Judd E. Hollander



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