# Electromagnetism

Phys Sci

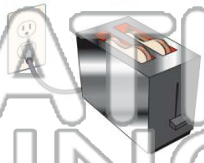
Name_____ Class_____ Date_____

1 **Electromagnetic radiation** may be **generated** by

**A** neutrons moving with constant velocity
**B** electrons moving with constant velocity
**C** accelerating neutrons
**D** accelerating electrons

2 An electrical appliance draws **9.0 amperes** of current when connected to a **120-volt source** of potential difference. What is the total amount of power **dissipated** by this appliance?

**A** 13 W
**B** 110 W
**C** 130 W
**D** 1100 W



3 What did **Millikan** conclude after performing his oil-drop experiment?

**A** The charge on an electron is 1.0 C

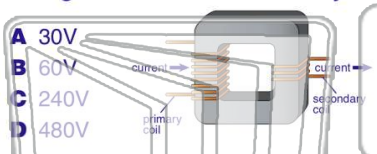
4 A high-resistance wire is connected in series with the coil of a galvanometer. The **function** of the **high-resistance wire** is to




5

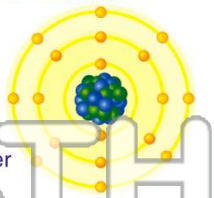
7 120-volt alternating current source. If the secondary coil has **400 turns**, what is the **voltage** induced in the **secondary coil**?

**A** 30V
**B** 60V
**C** 240V
**D** 480V



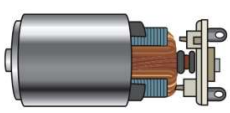

atoms is

**A** an induction coil
**B** an electroscope
**C** a galvanometer
**D** a mass spectrometer



9 An electric motor draws **150 amperes** of current while operating at **240 volts**. What is the **power rating** of this motor?

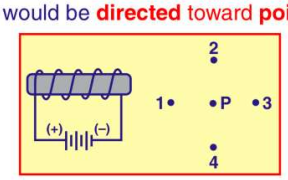
**A** 1.6 W
**B** $3.8 \times 10^2$ W
**C** $3.6 \times 10^4$ W
**D** $5.4 \times 10^6$ W



10 The diagram below shows a coil of wire (solenoid) connected to a battery.

The **north pole** of a compass placed at point P would be **directed** toward **point**

**A** 1
**B** 2
**C** 3
**D** 4



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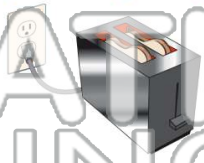

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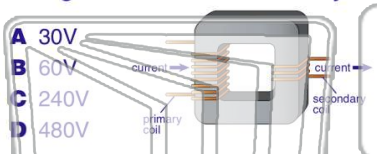


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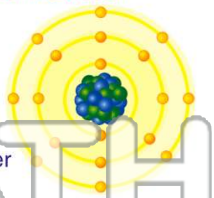

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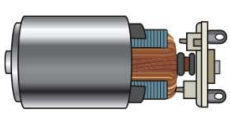

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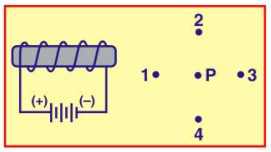


A