

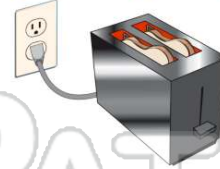


Name _____ Class _____ Date _____

- 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

- 3 What did **Millikan** conclude after performing his **oil-drop experiment**?
- A The charge on an electron is 1.0 C.
 - B The mass of an electron is 1.7×10^{27} kg.
 - C The charge on any oil drop is an integral multiple of the charge of an electron.

- 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



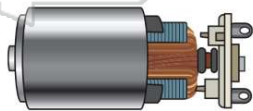
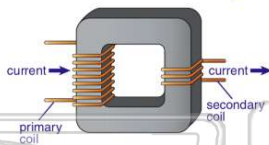
- 4 A high-resistance wire is connected in series with the coil of a galvanometer. The **function of the high-resistance wire** is to
- A limit the current in the coil
 - B prevent a potential drop across the coil
 - C allow the modified meter to get warm



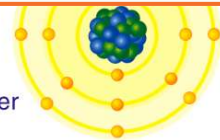
PREVIEW

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- 7
- A 30V
 - B 60V
 - C 240V
 - D 480V
- 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 3.8×10^2 W
 - C 3.6×10^4 W
 - D 5.4×10^6 W

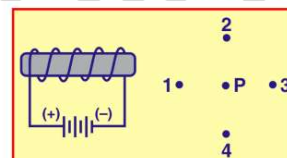


- B an electroscope
- C a galvanometer
- D a mass spectrometer



- 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





ANSWER KEY

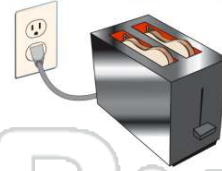
Electromagnetic radiation may be generated by

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

(d)

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



(d)

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

- A The charge on an electron is 1.0 C.
- B The mass of an electron is 1.7×10^{27} kg.
- C The charge on any oil drop is an integral multiple of the charge of an electron.
- D The charge on an oil drop may have any value larger than 1.6×10^{-19} C.

(c)

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

- A limit the current in the coil
- B prevent a potential drop across the coil
- C allow the modified meter to get warm
- D decrease the internal temperature of the modified galvanometer

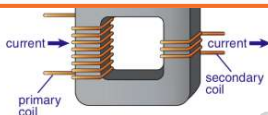
(a)



PREVIEW

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- A 50V
- B 60V
- C 240V
- D 480V

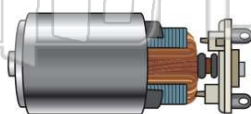


- C a galvanometer
- D a mass spectrometer



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 3.8×10^2 W
- C 3.6×10^4 W
- D 5.4×10^6 W

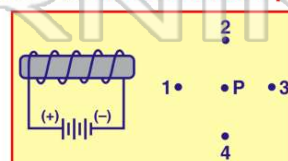


(c)

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



(a)