

## Unit 5 Review, pages 626–633

### Knowledge

1. (b)
  2. (a)
  3. (d)
  4. (c)
  5. (b)
  6. (c)
  7. (b)
  8. (c)
  9. (b)
  10. (a)
  11. (c)
  12. (b)
  13. (d)
  14. (b)
  15. (c)
  16. False. Voltage is a measure of the amount of electrical potential energy associated with each charge.
  17. False. In a circuit, electrons flow from negative to positive.
  18. True
  19. True
  20. True
  21. False. When two like magnetic poles are brought close one another, they repel.
  22. True
  23. False. Adding a soft-iron core will increase the strength of a DC motor.
  24. True
  25. True
  26. False. A step-up transformer increases the voltage in the secondary circuit.
- OR
- A step-up transformer decreases the current in the secondary circuit.
27. True
  28. (a) (v)
  - (b) (viii)
  - (c) (i)
  - (d) (ii)
  - (e) (iii)
  - (f) (ix)
  - (g) (vi)
  - (h) (iv)
  - (i) (vii)

### Understanding

29. The nuclear power plant has an efficiency of 32 %, so 32 % of the total power is transformed into electrical energy. 32 % of 14 000 MW is:  $0.32 \times 14\,000 \text{ MW} = 4500 \text{ MW}$

So, the power plant produces 4500 MW of electrical power.

30. Given:  $P = 35 \text{ W}$ ,  $\Delta t = 220 \text{ h}$

Required:  $\Delta E$

$$\text{Analysis: } P = \frac{\Delta E}{\Delta t}$$

$$\Delta E = P \Delta t$$

**Solution:** Convert time to seconds to get the answer in joules:

$$\Delta t = 220 \text{ h} \times \frac{3600 \text{ s}}{1 \text{ h}}$$

$$\Delta t = 792\,000 \text{ s}$$

$$\Delta E = (35 \text{ W})(792\,000 \text{ s})$$

$$= 2.772 \times 10^7 \text{ W} \cdot \text{s}$$

$$\Delta E = 2.772 \times 10^7 \text{ J} \text{ (two extra digits carried)}$$

To find the answer in kilowatt hours, convert from joules:

$$2.772 \times 10^7 \text{ J} \times \frac{1 \text{ kWh}}{3.6 \times 10^6 \text{ J}} = 7.7 \text{ kWh}$$

**Statement:** The light bulb requires 7.7 kWh or 28 MJ of energy to operate for 220 h.

31. Given:  $\Delta E = 1400 \text{ J}$ ,  $\Delta t = 7.0 \text{ min}$

Required:  $P$

$$\text{Analysis: } P = \frac{\Delta E}{\Delta t}$$

**Solution:** First convert time to seconds to get the answer in joules per second or watts:

$$\Delta t = 7 \text{ min} \left( \frac{60 \text{ s}}{1 \text{ min}} \right)$$

$$\Delta t = 420 \text{ s}$$

$$P = \frac{\Delta E}{\Delta t}$$

$$= \frac{1400 \text{ J}}{420 \text{ s}}$$

$$P = 3.3 \text{ W}$$

**Statement:** The amount of power required to charge the battery is 3.3 W.

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**Camilla Rothe**



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