

## SCIENCE SCENARIO

**Directions:** Use the information presented on pages 25 and 26 to answer questions 13 through 16.

### A.2.1.3

16. The power switch is on. Which procedure will **best** determine the type of circuit that makes an electromagnet?
- A Set switch 1 to S.  
Change switches 2 and 3 to every combination.  
Observe the motion of the metal weights.
  - B Set switch 1 to P.  
Change switches 2 and 3 to every combination.  
Observe the motion of the metal weights.
  - C Set switch 2 to a constant setting.  
Change switches 1 and 3 to every combination.  
Observe the motion of the metal weights.
  - D Set switches 2 and 3 to constant settings.  
Change switch 1 from P to S.  
Observe the motion of the metal weights. \*

- A *This procedure would not test both types of circuits.*
- B *This procedure would not test both types of circuits.*
- C *This procedure tests too many variables.*
- D *Key: This procedure tests the type of circuits while holding other variables constant.*