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Flight Instruments

1. If the pitot tube and outside static vents become clogged, which instruments would be affected?

- The altimeter, airspeed indicator, and turn-and-slip indicator.
 - **The altimeter, airspeed indicator, and vertical speed indicator.**
 - The altimeter, attitude indicator, and turn-and-slip indicator.
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2. Which instrument will become inoperative if the pitot tube becomes clogged?

- Altimeter.
 - Vertical speed.
 - **Airspeed.**
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3. Which instrument(s) will become inoperative if the static vents become clogged?

- Airspeed only.
 - Altimeter only.
 - **Airspeed, altimeter, and vertical speed.**
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4. (Refer to Figure 3.) Altimeter 1 indicates



FIGURE 3.—Altimeter.

- 500 feet.
 - 1,500 feet.
 - **10,500 feet.**
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5. (Refer to Figure 3.) Altimeter 2 indicates



FIGURE 3.—Altimeter.

- 1,500 feet.
- 4,500 feet.
- 14,500 feet.

6. (Refer to Figure 3.) Altimeter 3 indicates



FIGURE 3.—Altimeter.

- 9,500 feet.
- 10,950 feet.
- 15,940 feet.

Note:

On altimeter #3 the 10,000-foot pointer is not quite to 10,000 feet. The 1,000-foot pointer is halfway between 9,000 and 10,000 feet, and the 100-foot pointer is on 500 feet.

7. (Refer to Figure 3.) Which altimeter(s) indicate(s) more than 10,000 feet?



FIGURE 3.—Altimeter.

- 1, 2, and 3.
 - **1 and 2 only.**
 - 1 only.
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8. Altimeter setting is the value to which the barometric pressure scale of the altimeter is set so the altimeter indicates

- Calibrated altitude at field elevation.
 - Absolute altitude at field elevation.
 - **True altitude at field elevation.**
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9. How do variations in temperature affect the altimeter?

- **Pressure levels are raised on warm days and the indicated altitude is lower than true altitude.**
 - Higher temperatures expand the pressure levels and the indicated altitude is higher than true altitude.
 - Lower temperatures lower the pressure levels and the indicated altitude is lower than true altitude.
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10. What is true altitude?

- **The vertical distance of the aircraft above sea level.**
 - The vertical distance of the aircraft above the surface.
 - The height above the standard datum plane.
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