

**Demo PDF file. This file includes questions: 10 from 79. Full version of file looks the same as demo, but full version includes all questions. You may download file with all questions by link on bottom of this page**

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## Weather

### 1. What are the characteristics of stable air?

- Good visibility and steady precipitation.
- **Poor visibility and steady precipitation.**
- Poor visibility and intermittent precipitation.

Note:

*Poor visibility and steady precipitation are common in stable air. Answer A is incorrect because good visibility is common in unstable air. Answer C is incorrect because steady precipitation is common in stable air.*

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### 2. What are characteristics of a moist, unstable air mass?

- **Turbulence and showery precipitation.**
  - Poor visibility and smooth air.
  - Haze and smoke.
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### 3. An air mass moving inland from the coast in winter is likely to result in

- rain.
  - **fog.**
  - frost.
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### 4. (Refer to Figure 12.) The wind direction and velocity at KJFK is from

METAR KINK 121845Z 11012G18KT 15SM SKC 25/17 A3000
METAR KBOI 121854Z 13004KT 30SM SCT150 17/6 A3015
METAR KLAX 121852Z 25004KT 6SM BR SCT007 SCT250 16/15 A2991
SPECI KMDW 121856Z 32005KT 1 1/2SM RA OVC007 17/16 A2980 RMK RAB35
SPECI KJFK 121853Z 18004KT 1/2SM FG R04/2200 OVC005 20/18 A3006

FIGURE 12.—Aviation Routine Weather Reports (METAR).

- **180° true at 4 knots.**
  - 180° magnetic at 4 knots.
  - 040° true at 18 knots.
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**5. (Refer to Figure 12.) What are the current conditions for Chicago Midway Airport (KMDW)?**

METAR KINK 121845Z 11012G18KT 15SM SKC 25/17 A3000
METAR KBOI 121854Z 13004KT 30SM SCT150 17/6 A3015
METAR KLAX 121852Z 25004KT 6SM BR SCT007 SCT250 16/15 A2991
SPECI KMDW 121856Z 32005KT 1 1/2SM RA OVC007 17/16 A2980 RMK RAB35
SPECI KJFK 121853Z 18004KT 1/2SM FG R04/2200 OVC005 20/18 A3006

FIGURE 12.—Aviation Routine Weather Reports (METAR).

- **Sky 700 feet overcast, visibility 1-1/2SM, rain.**
  - Sky 7,000 feet overcast, visibility 1-1/2SM, heavy rain.
  - Sky 700 feet overcast, visibility 11, occasionally 2SM, with rain.
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**6. You have received an outlook briefing from flight service through 1800wxbrief.com. The briefing indicates you can expect a low-level temperature inversion with high relative humidity. What weather conditions would you expect when operating within the inversion?**

- **Smooth air, poor visibility, fog, haze, or low clouds.**
  - Light wind shear, poor visibility, haze, and light rain.
  - Turbulent air, poor visibility, fog, low stratus type clouds, and showery precipitation.
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**7. While operating around buildings, the Remote Pilot in Command should be aware of the creation of wind gusts that:**

- **Change rapidly in direction and speed causing turbulence.**
  - Increase performance of the aircraft.
  - Enhance stability and imagery.
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**8. Every physical process of weather is accompanied by, or is the result of, a**

- movement of air.
  - pressure differential.
  - **heat exchange.**
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**9. What causes variations in altimeter settings between weather reporting points?**

- **Unequal heating of the Earth's surface.**
  - Variation of terrain elevation.
  - Coriolis force.
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**10. A temperature inversion would most likely result in which weather condition?**

- Clouds with extensive vertical development above an inversion aloft.
  - Good visibility in the lower levels of the atmosphere and poor visibility above an inversion aloft.
  - **An increase in temperature as altitude is increased.**
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