DIRECCION DE PERSONAL AERONAUTICO DPTO. DE INSTRUCCION PREGUNTAS Y OPCIONES POR TEMA

16/09/2025

6:02

| TEMA: 0626 | ATP-RTC - Meteorology and Weather Services - Chap.8 | |
|------------------------|---|-------|
| COD PREG: | PREGUNTA: | RPTA: |
| PREG20098121 | What is a difference between an air mass thuderstorm and a steady-state thunderstorm? | В |
| OPCION A: | Air mass thunderstorms produce precipitation which falls outside of the updraft | |
| OPCION B: | Air mass thunderstorm downdrafts and precipitation retard and reverse the updrafts | |
| OPCION C: | Steady-state thunderstorms are associated with local surface heating | |
| PREG20098122 | Which type storms are most likely to produce funnel clouds or tornadoes? | В |
| OPCION A: | Air mass thunderstorms | |
| OPCION B: | Cold front or squall line thunderstorms | |
| OPCION C: | Storms associated with icing and supercooled water | |
| | | |
| PREG20098124 | Which conditions are necessary for the formation of upslope fog? | A |
| OPCION A: | Moist, stable air being moved over gradually rising ground by a wind | |
| OPCION B: | A clear sky, little or no wind, and 100 percent relative humidity | |
| OPCION C: | Rain falling through stratus clouds and a 10 to 25-knot wind moving the precipitation up the slope | |
| PREG20098125 | How are haze layers cleared or dispersed? | В |
| OPCION A: | By convective mixing in cool night air. | |
| OPCION B: | By wind or the movement of air. | |
| OPCION C: | By evaporation similar to the clearing of fog. | |
| PREG20098145 | Which action is recommended if jetstream turbulence is encountered with a direct headwind or tailwind? | C |
| OPCION A: | Increase airspeed to get out of the area quickly. | |
| OPCION B: | Change course to fly on the polar side of the jetstream. | |
| OPCION C: | Change altitude or course to avoid a possible elongated turbulent area. | |
| PREG20098127 | Which type cloud is associated with violent turbulence and a tendency toward the production of funnel clouds? | A |
| OPCION A: | Cumulonimbus mamma | |
| OPCION B: | Standing lenticular | |
| OPCION C: | Stratocumulus | |
| PREG20098128 OPCION A: | A clear area in a line of thundestorm echoes on a radar scope indicates the absence of clouds in the area. | C |
| OPCION B: | an area of no convective turbulence. | |

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| PREG20098129 When flying over the top of a severe thunderstorm, the cloud should be overflown by at least OPCION A: 1,000 feet for each 10 knots windspeed OPCION B: 2,500 feet OPCION C: 500 feet above any moderate to severe turbulence layer PREG20098130 What type weather change is to be expected in an area where frontolysis is reported? OPCION A: The frontal weather is becoming stronger OPCION B: The front is dissipating OPCION C: The front is moving at a faster speed PREG20098132 Which atmospheric factor causes rapid movement of surface fronts? A OPCION A: Upper winds blowing across the front. OPCION B: Upper low located directly over the surface low. OPCION C: The cold front overtaking and lifting the warm front. PREG20098146 Which action is recommended regarding an altitude change to get out of jetstream turbulence? OPCION A: Descend if ambient temperature is falling OPCION B: Descend if ambient temperature is rising OPCION C: Maintain altitude if ambient temperature gradients are located OPCION A: In areas of strong low pressure systems in the stratosphere OPCION B: At the tropopause where intensified temperature gradients are located OPCION C: In a single continuous band, encircling the Earth, where there is a break between the equatorial and polar tropopause PREG20098148 Turbulence encountered above 15,000 feet AGL, not associated with cloud formations, should be reported as OPCION B: high altitude turbulence. OPCION B: high altitude turbulence. OPCION C: clear air turbulence. OPCION B: high altitude turbulence. OPCION B: H6° F OPCION B: H6° F OPCION C: Not reported | | | |
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| OPCION B: $+6^{\circ}$ F | PREG20098165 | , , | C |
| | OPCION A: | +6°C | |
| OPCION C: Not reported | OPCION B: | +6° F | |
| | OPCION C: | Not reported | |

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| PREG20098166 | What is indicated on the Weather Depiction Chart by a continuous smooth line enclosing a hatched geographic area? | C |
| OPCION A: | The entire area has ceilings less than 1,000 feet and/or visibility less than 3 miles | |
| OPCION B: | More than 50 percent of the area enclosed by the smooth line is predicted to have IFR conditions | |
| OPCION C: | Reporting stations within the enclosed area are all showing IFR conditions at the time of the report | |
| PREG20098167 | The horizontal wind shear, critical for turbulence (moderate or greater) per 150 miles is | В |
| OPCION A: | 18 knots or less | |
| OPCION B: | greater than 18 knots | |
| OPCION C: | not a factor, only vertical shear is a factor | |
| PREG20098168 | A severe thunderstorm is one in which he surface wind is | A |
| OPCION A: | 50 knots or greater and/or surface hail is 3/4 inch or more in diameter. | |
| OPCION B: | 55 knots or greater and/or surface hail is 1/2 inch or more in diameter. | |
| OPCION C: | 45 knots or greater and/or surface hail is 1 inch or more in diameter. | |
| PREG20098169 | A squall is a sudden increase of at least 16 knots in average wind speed to a sustained speed of | В |
| OPCION A: | 24 knots or more for at least 1 minute | |
| OPCION B: | 22 knots or more for at least 1 minute | |
| OPCION C: | 20 knots or more for at least 1 minute | |
| PREG20098170 | A calm wind that is forecast, in the international Terminal Aerodrome Forecast (TAF) is encoded as | В |
| OPCION A: | VRB00KT | |
| OPCION B: | 00000KT | |
| OPCION C: | 00003KT | |
| PREG20098171 | In the International Terminal Aerodrome Forecast (TAF), a variable wind direction is noted by "VRB" where the three digit direction usually appears. A calm wind appears in the TAF as | С |
| OPCION A: | 00003KT | |
| OPCION B: | VRB00KT | |
| OPCION C: | 00000KT | |
| PREG20098172 | KFTW UA/OV DFW/TM 1645/FL100/TP PA30/SK SCT031-TOP043/BKN060-TOP085/OVC097-TOPUNKN/WX FV00SM RA/TA 07 This pilot report to Fort Worth (KFTW) indicates | С |

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| OPCION A: | the aircraft is in light rain | |
|------------------|---|---|
| OPCION B: | that the top of the ceiling is 4,300 feet | |
| OPCION C: | the ceiling at KDFW is 6,000 feet | |
| | | |
| PREG20098173 | The prevailing visibility in the following METAR is METAR KFSM 131756Z AUTO 00000KT M1/4SM R25/0600V 1000FT-RA FG VV004 06/05 A2989 RMK AO2 \$ | A |
| OPCION A: | less than 1/4 statute mile | |
| OPCION B: | measured 1/4 statute mile | |
| OPCION C: | a mean (average) of 1/4 statute mile | |
| | | |
| PREG20098174 | The VV001 in the following METAR indicates METAR KFSM 131756Z AUTO 00000KT M1/4SM R25/0600V1000FT - RA FG VV001 A2989 RMK AO2 VIS 3/4 RWY19 CHINO RWY19\$ | В |
| OPCION A: | an observer reported the vertical visibility as 100 feet | |
| OPCION B: | a 100 foot indefinite ceiling | |
| OPCION C: | the variability value is 100 feet | |
| | <u> </u> | |
| PREG20098118 | Where can the maximum hazard zone caused by wind shear associated with a thunderstorm be found? | C |
| OPCION A: | in front of the thunderstorm cell (anvil side) and on the southwest side of the cell | |
| OPCION B: | Ahead of the roll cloud or gust front and directly under the anvil cloud | |
| OPCION C: | On all sides and directly under the thunderstorm cell | |
| | | |
| PREG20098164 | (Refer to Figure 149.) What will be the wind and temperature trend for a DSM LIT SHV flight at 12,000 feet? | A |
| OPCION A: | Windspeed decrease | |
| OPCION B: | Temperature decrease | |
| OPCION C: | Wind direction shift from northwest to southeast | |
| | | |
| PREG20098147 | Clear air turbulence (CAT) associated with a mountain wave may extend as far as | В |
| OPCION A: | 1,000 miles or more downstream of the mountain | |
| OPCION B: | 5,000 feet above the tropopause | |
| OPCION C: | 100 miles or more upwind of the mountain | |
| | | |
| PREG20098163 | (Refer to Figure 145.) The peak wind at KAMA was reported to be from 320° true at 39 knots | A |
| OPCION A: | which occurred at 1743Z | |
| OPCION B: | with gusts to 43 knots | |
| OPCION C: | with .43 of an inch liquid precipitation since the last report | |
| | | |

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A

В

PREG20098161 What type turbulence should be reported when it momentarily causes Slight, erratic changes in altitude and/or attitude, one-third to two-thirds of the time?

OPCION A: Occasional light chop.

OPCION B: Moderate chop.

OPCION C: Intermittent moderate turbulence.

PREG20098149 A strong wind shear can be expected A

OPCION A: on the low pressure side of a 100-knot jetstream core

OPCION B: where the horizontal wind shear is 15 knots, in a distance equal to 2.5°

longitude

OPCION C: if the 5°C isotherms are spaced 100 NM or closer together

PREG20098150 What is a likely location of clear air turbulences?

OPCION A: in a upper trough on the polar side of a jetstream

OPCION B: Near a ridge aloft on the equatorial side of a high pressure flow

OPCION C: Downstream of the equatorial side of a jetstream

PREG20098151 Where do the maximum winds associated with the jetstream usually A

occur?

OPCION A: in the vicinity of breaks in the tropopause on the polar side of the jef

core

OPCION B: Below the jet core where a long straight stretch of the jetstream is

located

OPCION C: On the equatorial side of the jetstream where moisture has formed

cirriform clouds

PREG20098152 Which type jetstream can be expected to cause the greater turbulence?

OPCION A: A straight jetstream associated with a high pressure ridge.

OPCION B: A jetstream associated with a wide isotherm spacing.

OPCION C: A curving jetstream associated with a deep low pressure trough.

PREG20098153 What weather feature occurs at altitude level near the tropopause?

OPCION A: Maximum winds and narrow wind shear zones **OPCION B:** Abrupt temperature increase above the tropopause

OPCION C: Thin layers of cirrus (ice crystal) clouds at the tropopause level.

PREG20098155 METAR KFSO 031053Z VRB02KT 7SM MIFG SKC 15/14 A3012

RMK SLP993 6/// T01500139 56012

In the above METAR, the SLP993 6/// indicates

OPCION A: sea level pressure 999.3 hectopascals which in the last 6 hours has

dropped 4 hectopascals

OPCION B: sea-level pressure 999.3 hectopascals and an indeterminable amount of

precipitation has ocurred over the last 3 hours

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| ODGIGN: C | | |
|------------------|--|----|
| OPCION C: | sea-level pressure 999.3 hectopascals and in the last 6 hours that four- tenths of an inch of precipitation has fallen | |
| | | |
| PREG20098156 | Weather conditions expected to occur in the vicinity of the airport, but not at the airport, are denoted by the letters "VC." When VC appears in a Terminal Aerodrome Forecast, it covers a geographical area of | A |
| OPCION A: | a 5 to 10 statute mile radius from the airport | |
| OPCION B: | a 5 mile radius of the center of a runway complex | |
| OPCION C: | 10 miles of the station originating the forecast | |
| PREG20098157 | What weather is predicted by the term VCTS in a Terminal Aerodrome Forecast? | A |
| OPCION A: | Thunderstorms are expected in the vicinity | |
| OPCION B: | Thunderstorms may occur over the station and within 50 miles of the station | |
| OPCION C: | Thunderstorms are expected between 5 and 25 miles of the runway complex | |
| PREG20098158 | If squalls are reported at the destination airport, what wind conditions existed at the time? | В |
| OPCION A: | Sudden increases in windspeed of at least 15 knots, to a sustained wind speed of 20 knots, lasting for at least 1 minute | |
| OPCION B: | A sudden increase in wind speed of at least 16 knots, the speed rising to 22 knots or more for 1 minute or longer | |
| OPCION C: | Rapid variation in wind direction of at least 20° and changes in speed of at least 10 knots between peaks and lulls | |
| PREG20098159 | What type turbulence should be reported when it causes slight, rapid, and somewhat rhythmic bumpiness without appreciable changes in attitude or altitude, less than one-third of the time? | A |
| OPCION A: | Occasional light chop | |
| OPCION B: | Moderate turbulence | |
| OPCION C: | Moderate chop | |
| PREG20098160 | What type turbulence should be reported when it causes changes in altitude and/or attitude more than two-thirds of the time, with the aircraft remaining in positive control at all times? | В |
| OPCION A: | Continuous severe chop. | |
| OPCION B: | Continuous moderate turbulence. | |
| OPCION C: | Intermittent moderate turbulence. | |
| PREG20098162 | What conditions are indicated on a Weather Depiction Chart? | A |
| OPCION A: | Actual sky cover, visibility restrictions, and type of precipitation at reporting stations | 71 |
| OPCION B: | Forescast ceilings and visibilities over a large geographic area | |
| OPCION C: | Actual en route weather conditions between reporting stations | |

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| PREG20098117 | What feature is normally associated with the cumulus stage of a thunderstorm? | C |
|------------------|---|---|
| OPCION A: | Beginning of rain at the surface. | |
| OPCION B: | Frequent lightning. | |
| OPCION C: | Continuous updraft. | |
| PREG20098123 | When advection fog has developed, what may tend to dissipate or lift the fog into low stratus clouds? | В |
| OPCION A: | Temperature inversion. | |
| OPCION B: | Wind stronger than 15 knots. | |
| OPCION C: | Surface radiation. | |
| PREG20098115 | Which weather phenomenon signals the beginning of the mature stage of a thunderstorm? | В |
| OPCION A: | The appearance of an anvil top. | |
| OPCION B: | The start of rain at the surface. | |
| OPCION C: | Growth rate of the cloud is at its maximum. | |
| PREG20098075 | (Refer to Figure 144.) What effect will a microburst encounter have upon the aircraft in position 3? | С |
| OPCION A: | Decreasing headwind | |
| OPCION B: | Increasing tailwind | |
| OPCION C: | Strong downdraft | |
| PREG20098076 | (Refer to Figure 144.) What effect will a microburst encounter have upon the aircraft in position 4? | A |
| OPCION A: | Strong tailwind | |
| OPCION B: | Strong updraft | |
| OPCION C: | Significant performance increase | |
| PREG20098077 | (Refer to Figure 144.) How will the aircraft in position 4 be affected by a microburst encounter? | В |
| OPCION A: | Performance increasing with a tailwind and updraft | |
| OPCION B: | Performance decreasing with a tailwind and downdraft | |
| OPCION C: | Performance decreasing with a headwind and downdraft | |
| PREG20098078 | What is the expected duration of an individual microburst? | С |
| OPCION A: | Two minutes with maximum winds lasting approximately 1 minute | C |
| OPCION B: | One microburst may continue for as long as 2 to 4 hours | |
| OPCION C: | Seldom longer than 15 minutes from the time the burst strikes the ground until dissipation | |

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| PREG20098074 | (Refer to Figure 144.) When penetrating a microburst, which aircraft will experience an increase in performance without a change in pitch or power? | C |
|------------------|---|---|
| OPCION A: | 3 | |
| OPCION B: | 2 | |
| OPCION C: | 1 | |
| | | |
| PREG20098079 | What is a characteristic of the troposphere? | В |
| OPCION A: | It contains all the moisture of the atmosphere. | |
| OPCION B: | There is an overall decrease of temperature with an increase of altitude. | |
| OPCION C: | The average altitude of the top of the troposphere is about 6 miles. | |
| | | |
| PREG20098081 | What characterizes a ground-based inversion? | C |
| OPCION A: | Convection currents at the surface. | |
| OPCION B: | Cold temperatures. | |
| OPCION C: | Poor visibility. | |
| | | |
| PREG20098082 | What feature is associated with a temperature inversion? | A |
| OPCION A: | A stable layer of air. | |
| OPCION B: | An unstable layer of air. | |
| OPCION C: | Air mass thunderstorms. | |
| PREG20098083 | When does minimum temperature normally occur during a 24-hour period? | A |
| OPCION A: | After sunrise | |
| OPCION B: | About 1 hour before sunrise | |
| OPCION C: | At midnight | |
| PREG20098084 | Which area or areas of the Northern Hemisphere experience a generally east to west movement of weather systems? | В |
| OPCION A: | Arctic only | |
| OPCION B: | Arctic and subtropical | |
| OPCION C: | Subtropical only | |
| | | |
| PREG20098080 | What is the primary cause of all changes in the Earth's weather? | A |
| OPCION A: | Variations of solar energy at the Earth's surface | |
| OPCION B: | Changes in air pressure over the Earth's surface | |
| OPCION C: | Movement of air masses from moist areas to dry areas | |
| PREG20098073 | (Refer to Figure 144.) If involved in a microburst encounter, in which aircraft positions will the most severe downdraft occur? | C |
| OPCION A: | 4 and 5 | |
| OPCION B: | 2 and 3 | |

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| OPCION C: | 3 and 4 | |
|------------------|--|---|
| PREG20098072 | An aircraft that encounters a headwind of 45 knots, within a microburst, may expect a total shear across the microburst of | C |
| OPCION A: | 40 knots | |
| OPCION B: | 80 knots | |
| OPCION C: | 90 knots | |
| PREG20098071 | Maximum downdrafts in a microburst encounter may be as strong as | C |
| OPCION A: | 8,000 ft/min | |
| OPCION B: | 7,000 ft/min | |
| OPCION C: | 6,000 ft/min | |
| PREG20098060 | What is the expected duration of an individual microburst? | C |
| OPCION A: | Two minutes with maximum winds lasting approximately 1 minute | |
| OPCION B: | One microburst may continue for as long as 2 to 4 hours | |
| OPCION C: | Seldom longer than 15 minutes from the time the burst strikes the ground until dissipation | |
| PREG20098061 | Which INITIAL cockpit indications should a pilot be aware of when a headwind shears to a calm wind? | C |
| OPCION A: | Indicated airspeed decreases, aircraft pitches up, and altitude decreases. | |
| OPCION B: | Indicated airspeed increases, aircraft pitches down, and altitude increases. | |
| OPCION C: | Indicated airspeed decreases, aircraft pitches down, and altitude decreases. | |
| PREG20098062 | Which condition would INITIALLY cause the indicated airspeed and pitch to increase and the sink rate to decrease? | C |
| OPCION A: | Sudden decrease in a headwind component. | |
| OPCION B: | Tailwind which suddenly increases in velocity. | |
| OPCION C: | Sudden increase in a headwind component. | |
| PREG20098063 | Which INITIAL cockpit indications should a pilot be aware of when a constant tailwind shears to a calm wind? | C |
| OPCION A: | Altitude increases; pitch and indicated airspeed decrease | |
| OPCION B: | Altitude, pitch, and indicated airspeed decrease | |
| OPCION C: | Altitude, pitch, and indicated airspeed increase | |
| PREG20098064 | What is the recommended technique to counter the loss of airspeed and resultant lift from wind shear? | C |
| OPCION A: | Lower the pitch attitude and regain lost airspeed. | |

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| OPCION B: | Avoid overstressing the aircraft, "pitch to airspeed", and apply maximum power. | |
|------------------|--|---|
| OPCION C: | Maintain, or increase, pitch attitude and accept the lower-than-normal airspeed indications. | |
| PREG20098065 | Which wind-shear condition results in a loss of airspeed? | В |
| OPCION A: | Decreasing headwind or tailwind | |
| OPCION B: | Decreasing headwind and increasing tailwind | |
| OPCION C: | Increasing headwind and decreasing tailwind | |
| PREG20098066 | Which wind-shear condition results in an increase in airspeed? | С |
| OPCION A: | Increasing tailwind and decreasing headwind. | |
| OPCION B: | Increasing tailwind and headwind. | |
| OPCION C: | Decreasing tailwind and increasing headwind. | |
| DDEC20008067 | Which is the definition of "severe wind shoot"? | D |
| PREG20098067 | Which is the definition of "severe wind shear"? | В |
| OPCION A: | Any rapid change of horizontal wind shear in excess of 25 knots; vertical shear excepted. | |
| OPCION B: | Any rapid change in wind direction or velocity which causes airspeed changes greater than 500 ft/min. | |
| OPCION C: | Any change of airspeed greater than 20 knots which is sustained for more than 20 seconds or vertical speed changes in excess of 100 ft/min. | |
| PREG20098068 | Doppler wind measurements indicate that the windspeed change a pilot may expect when flying through the peak intensity of a microburst is approximately | С |
| OPCION A: | 15 knots | |
| OPCION B: | 25 knots | |
| OPCION C: | 45 knots | |
| PREG20098069 | Which airplane performance characteristics should be recognized during takeoff when encountering a tailwind shear that increases in intensity? | A |
| OPCION A: | Loss of, or diminished, airspeed performance | |
| OPCION B: | Decreased takeoff distance | |
| OPCION C: | Increased climb performance immediately after takeoff | |
| PREG20098070 | Thrust is being managed to maintain desired indicated airspeed and the glide slope is being flown. Which characteristics should be observed when a tailwind shears to a constant headwind? | В |
| OPCION A: | PITCH ATTITUDE: Increases. VERTICAL SPEED: Increases. INDICATED AIRSPEED: Decreases, then increases to approach speed. | |
| OPCION B: | PITCH ATTITUDE: Increases. VERTICAL SPEED: Decreases. INDICATED AIRSPEED: Increases, then decreases. | |

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| OPCION C: | PITCH ATTITUDE: Decreases. VERTICAL SPEED: Decreases. INDICATED AIRSPEED: Decreases, then increases to approach speed. | |
|------------------|--|---|
| PREG20098085 | At lower levels of the atmosphere, friction causes the wind to flow across isobars into a low because the friction | A |
| OPCION A: | decreases windspeed and Coriolis force | |
| OPCION B: | decreases pressure gradient force | |
| OPCION C: | creates air turbulence and raises atmospheric pressure | |
| PREG20098087 | Where is the usual location of a thermal low? | C |
| OPCION A: | Over the arctic region. | Č |
| OPCION B: | Over the eye of a hurricane. | |
| OPCION C: | Over the surface of a dry, sunny region. | |
| | | |
| PREG20098086 | What is a feature of air movement in a high pressure area? | В |
| OPCION A: | Ascending from the surface high to lower pressure at higher altitudes | |
| OPCION B: | Descending to the surface and then outward | |
| OPCION C: | Moving outward from the high at high altitudes and into the high at the surface | |
| PREG20098089 | What temperature condition is indicated if precipitation in the form of wet snow occurs during flight? | A |
| OPCION A: | The temperature is above freezing at flight altitude | |
| OPCION B: | The temperature is above freezing at higher altitudes | |
| OPCION C: | There is an inversion with colde air below | |
| PREG20098105 | Which process causes adiabatic cooling? | A |
| OPCION A: | Expansion of air as it rises. | |
| OPCION B: | Movement of air over a colder surface. | |
| OPCION C: | Release of latent heat during the vaporization process. | |
| PREG20098106 | When saturated air moves downhill, its temperature increases | В |
| OPCION A: | at a faster rate than dry air because of the release of latent heat. | |
| OPCION B: | at a slower rate than dry air because vaporization uses heat. | |
| OPCION C: | at a slower rate than dry air because condensation releases heat. | |
| PREG20098107 | Which condition is present when a local parcel of air is stable? | A |
| OPCION A: | The parcel of air resists convection | |
| OPCION B: | The parcel of air cannot be forced uphill | |
| OPCION C: | As the parcel of air moves upward, its temperature becomes warmer than the surrounding air | |

PREG20098114

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A

 \mathbf{C} PREG20098108 Convective clouds which penetrate a stratus layer can produce which threat to instrument flight? Freezing rain **OPCION A: OPCION B:** Clear air turbulence **OPCION C:** Embedded thunderstorms PREG20098109 В Which type clouds are indicative of very strong turbulence? **OPCION A:** Nimbostratus **OPCION B:** Standing lenticular Cirrocumulus **OPCION C:** What is the feature of a stationary front? \mathbf{C} PREG20098110 **OPCION A:** The warm front surface moves about half the speed of the cold front surface. **OPCION B:** Weather conditions are a combination of strong cold front and strong warm front weather. Surface winds tend to flow parallel to the frontal zone. **OPCION C:** PREG20098116 During the life cycle of a thunderstorm, which stage is characterized В predominately by downdrafts? **OPCION A:** Cumulus **OPCION B:** Dissipating **OPCION C:** Mature PREG20098111 Which event usually occurs after an aircraft passes through a front into \mathbf{C} the colder air? **OPCION A:** Temperature/dewpoint spread decreases. **OPCION B:** Wind direction shifts to the left. **OPCION C:** Atmospheric pressure increases. PREG20098112 What minimum thickness of cloud layer is indicated if precipitation is A reported as light or greater intensity? 4.000 feet thick **OPCION A: OPCION B:** 2,000 feet thick **OPCION C:** A thickness which allows the cloud tops to be higher than the freezing level PREG20098113 Which condition produces weather on the lee side of a large lake? A **OPCION A:** Warm air flowing over a colder lake may produce fog **OPCION B:** Cold air flowing over a warmer lake may produce advection fog Warn air flowing over a cool lake may produce rain showers **OPCION C:**

How can the stability of the atmosphere be determined?

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| OPCION A: | Ambient temperature lapse rate. | |
|------------------|--|---|
| OPCION B: | Atmospheric pressure at various levels. | |
| OPCION C: | Surface temperatures/dewpoint spread. | |
| | | |
| PREG20098088 | Freezing rain encountered during climb is normally evidence that | В |
| OPCION A: | a climb can be made to a higher altitude without encountering more than light icing | |
| OPCION B: | a layer of warmer air exists above | |
| OPCION C: | ice pellets at higher altitudes have changed to rain in the warmer air below | |
| PREG20098103 | What is indicated about an air mass if the temperature remains unchanged or decreases slightly as altitude is increased? | C |
| OPCION A: | The air is unstable. | |
| OPCION B: | A temperature inversion exists. | |
| OPCION C: | The air is stable. | |
| PREG20098104 | What weather condition occurs at the altitude where the dewpoint lapse rate and the dry adiabatic lapse rate converge? | A |
| OPCION A: | Cloud bases form | |
| OPCION B: | Precipitation starts | |
| OPCION C: | Stable air changes to unstable air | |
| PREG20098101 | What is the result when water vapor changes to the liquid state while being lifted in a thunderstorm? | A |
| OPCION A: | Latent heat is released to the atmosphere. | |
| OPCION B: | Latent heat is transformed into pure energy. | |
| OPCION C: | Latent heat is absorbed from the surrounding air by the water droplet. | |
| | | |
| PREG20098090 | What is an important characteristic of wind shear? | C |
| OPCION A: | It is primarily associated with the lateral vortices generated by thunderstorms. | |
| OPCION B: | It usually exists only in the vicinity of thunderstorms, but may be found near a strong temperature inversion. | |
| OPCION C: | It may be associated with either a wind shift or a windspeed gradient at any level in the atmosphere. | |
| PREG20098091 | What condition produces the most frequent type of ground-or surface-based temperature inversion? | C |
| OPCION A: | The movement of colder air under warm air or the movement of warm air over cold air. | |
| OPCION B: | Widespread sinking of air within a thick layer aloft resulting in heating by compression. | |
| OPCION C: | Terrestrial radiation on a clear, relatively calm night. | |

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| PREG20098092 | Which term applies when the temperature of the air changes by compression or expansion with no heat added or removed? | C |
| OPCION A: | Katabatic. | |
| OPCION B: | Advection. | |
| OPCION C: | Adiabatic. | |
| | | |
| PREG20098102 | What is a feature of supercooled water? | В |
| OPCION A: | The water drop sublimates to an ice particle upon impact | |
| OPCION B: | The unstable water drop freezes upon striking an exposed object | |
| OPCION C: | The temperature of the water drop remains at 0°C until it impacts a part of the airframe, then clear ice accumulates | |
| PREG20098094 | Isobars on a surface weather chart represent lines of equal pressure | В |
| OPCION A: | at the surface | Б |
| OPCION B: | reduced to sea level | |
| OPCION B: | | |
| OPCION C: | at a given atmospheric pressure altitude | |
| PREG20098093 | What is the approximate rate unsaturated air will cool flowing upslope? | A |
| OPCION A: | 3°C per 1,000 feet. | |
| OPCION B: | 2°C per 1,000 feet. | |
| OPCION C: | 4°C per 1,000 feet. | |
| PREG20098096 | How does Coriolis force affect wind direction in the Southern Hemisphere? | A |
| OPCION A: | Causes clockwise rotation around a low | |
| OPCION B: | Causes wind to flow out of a low toward a high | |
| OPCION C: | Has exactly the same effect as in the Northern Hemisphere | |
| | | |
| PREG20098097 | Which weather condition is defined as an anticyclone? | В |
| OPCION A: | Calm | |
| OPCION B: | High pressure area | |
| OPCION C: | COL | |
| | | |
| PREG20098098 | Which conditions result in the formation of frost? | C |
| OPCION A: | The temperature of the collecting surface is at or below freezing and small droplets of moisture are falling | |
| OPCION B: | Dew collects on the surface and then freezes because the surface temperature is lower than the air temperature | |
| OPCION C: | Temperature of the collecting surface is below the dewpoint and the dewpoint is also below freezing | |
| PREG20098099 | What condition is indicated when ice pellets are encountered during flight? | В |
| OPCION A: | Thunderstorms at higher levels | |
| | - | |

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| OPCION B: | Freezing rain at higher levels | |
|------------------|---|---|
| OPCION C: | Snow at higher levels | |
| | | |
| PREG20098100 | When will frost most likely form on aircraft surfaces? | A |
| OPCION A: | On clear nights with stable air and light winds | |
| OPCION B: | On overcast nights with freezing drizzle precipitation | |
| OPCION C: | On clear nights with convective action and a small temperature / dewpoint spread | |
| PREG20098095 | At which location does Coriolis force have the least effect on wind direction? | C |
| OPCION A: | At the poles | |
| OPCION B: | Middle latitudes (30° to 60°) | |
| OPCION C: | At the Equator | |
| PREG20098135 | Under what conditions would clear air turbulence (CAT) most likely be encountered? | A |
| OPCION A: | When constant pressure charts show 20-knot isotachs less than 60 NM apart | |
| OPCION B: | When constant pressure charts show 60-knot isotachs less than 20 NM apart | |
| OPCION C: | When a sharp trough is moving at a speed less than 20 knots | |
| PREG20098136 | What action is recommended when encountering turbulence due to a wind shift associated with a sharp pressure frough? | A |
| OPCION A: | Establish a course across the trough | |
| OPCION B: | Climb or descend to a smoother level | |
| OPCION C: | Increase speed to get out of the trough as soon as possible | |
| PREG20098137 | In comparison to an approach in a moderate headwind, which is an indication of a possible wind shear due to a decreasing headwing when descending on the glide slope? | В |
| OPCION A: | Less power is required. | |
| OPCION B: | Higher pitch attitude is required. | |
| OPCION C: | Lower descent rate is required. | |
| PREG20098138 | What condition is necessary for the formation of structural icing in flight? | С |
| OPCION A: | Supercooled water drops | |
| OPCION B: | Water vapor | |
| OPCION C: | Visible water | |
| PREG20098139 | Which type precipitation is an indication that supercooled water is | В |

present?

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| mountain wave? OPCION A: Rotor cloud OPCION B: Standing lenticular OPCION C: Low stratus PREG20098142 Where is the normal location of the jetstream relative to surface lows and fronts? OPCION A: The jetstream is located north of the surface systems OPCION B: The jetstream is located south of the low and warm front OPCION C: The jetstream is located over the low and crosses both the warm front and the cold front PREG20098143 Which type frontal system is normally crossed by the jetstream? OPCION A: Cold fron and warm front OPCION B: Warm front OPCION C: Oecluded front PREG20098144 Which type clouds may be associated with the jetstream? OPCION A: Cumulonimbus cloud line where the jetstream crosses the cold front OPCION B: Cirrus clouds on the equatorial side of the jetstream OPCION C: Cirrostratus cloud band on the polar side and under the jetstream OPCION C: Cirrostratus cloud band on the polar side and under the jetstream OPCION B: Extreme temperature difference OPCION B: Dewpoint difference OPCION C: Stratus versus cumulus clouds PREG20098140 Which is a necessary condition for the occurence of a low-level temperature inversion wind shear? OPCION A: The temperature differential between the cold and warm layers must be at least 10°C. OPCION B: A calm or light wind near the surface and a relatively strong wind just above the inversion. OPCION C: A wind direction difference of at least 30° between the wind near the surface and the wind just above the inversion. | OPCION A: | Wet snow | |
|---|------------------|---|---|
| PREG20098141 What is the lowest cloud in the stationary group associated with a mountain wave? OPCION A: Rotor cloud OPCION B: Standing lenticular OPCION C: Low stratus PREG20098142 Where is the normal location of the jetstream relative to surface lows and fronts? OPCION A: The jetstream is located north of the surface systems OPCION B: The jetstream is located south of the low and warm front OPCION C: The jetstream is located over the low and crosses both the warm front and the cold front PREG20098143 Which type frontal system is normally crossed by the jetstream? OPCION A: Cold fron and warm front OPCION B: Warm front OPCION C: Occluded front PREG20098144 Which type clouds may be associated with the jetstream? OPCION A: Cumulonimbus cloud line where the jetstream crosses the cold front OPCION B: Cirrus clouds on the equatorial side of the jetstream OPCION C: Cirrostratus cloud band on the polar side and under the jetstream OPCION A: Extreme temperature difference OPCION B: Dewpoint difference OPCION B: Dewpoint difference OPCION C: Stratus versus cumulus clouds PREG20098140 Which is a necessary condition for the occurence of a low-level temperature inversion wind shear? OPCION A: The temperature differential between the cold and warm layers must be at least 10°C. OPCION B: A calm or light wind near the surface and a relatively strong wind just above the inversion. OPCION C: A wind direction difference of at least 30° between the wind near the surface and the wind just above the inversion. | OPCION B: | Freezing rain | |
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| PREG20098133 In which meteorological conditions can frontal waves and low pressure areas form? | OPCION B: | | |
| areas form? | OPCION C: | | |
| OPCION A: Warm fronts or occluded fronts. | PREG20098133 | | В |
| | OPCION A: | Warm fronts or occluded fronts. | |

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| OPCION B: | Slow-moving cold fronts or stationary fronts. | |
|------------------|---|---|
| OPCION C: | Cold front occlusions. | |
| 01 01011 01 | | |
| PREG20098126 | Which feature is associated with the tropopause? | C |
| OPCION A: | Absence of wind and turbulence | |
| OPCION B: | Absolute upper limit of cloud formation | |
| OPCION C: | Abrupt change of temperature lapse rate | |
| | | |
| PREG20098131 | Which weather condition is an example of a nonfrontal instability band? | A |
| OPCION A: | Squall line | |
| OPCION B: | Advective fog | |
| OPCION C: | Frontogenesis | |
| | | |
| PREG20098119 | Atmospheric pressure changes due to a thunderstorm will be al the lowest value | В |
| OPCION A: | during the downdraft and heavy rain showers. | |
| OPCION B: | when the thunderstorm is approaching. | |
| OPCION C: | immediately after the rain showers have stopped. | |
| | | |
| PREG20098120 | Why are downdrafts in a mature thunderstorm hazardous? | A |
| OPCION A: | Downdrafts are kept cool by cold rain which tends to accelerate the downward velocity | |
| OPCION B: | Downdrafts converge toward a central location under the storm after striking the surface | |
| OPCION C: | Downdrafts become warmer than the surrounding air and reverse into an updraft before reaching the surface | |

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