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

28/04/2006 15:35

TEMA: 0159 COMMERCIAL PILOT - (CH. 6) V COD_PREG: PREGUNTA: 5301 Every physical process of weather is accom OPCIONA: a heat exchange. OPCIONB: the movement of air. OPCIONC: a pressure differential.		RPTA:
5304 Which conditions are favorable for the form OPCION A: Clear, cool nights with calm or light wind. OPCION B: Area of unstable air rapidly transferring heat OPCION C: Broad areas of cumulus clouds with smooth		A
5310 What causes wind? OPCION A: The Earth's rotation. OPCION B: Air mass modification. OPCION C: Pressure differences.		С
5312 Why does the wind have a tendency to flow OPCION A: Coriolis force tends to counterbalance the hopCION B: Coriolis force acts perpendicular to a line coopCION C: Friction of the air with the Earth deflects the	onnecting the highs and lows.	A
5314 With regard to windflow patterns shown on OPCION A: close together, the pressure gradient force is OPCION C: close together, the pressure gradient force is	ce is greater and wind velocities are stronger.	С
5315 What prevents air from flowing directly from OPCION A: Coriolis force. OPCION B: Surface friction. OPCION C: Pressure gradient force.	n high-pressure areas to low-pressure areas?	A
5317 Which is true with respect to a high- or low-OPCION A: A high-pressure area or ridge is an area of ridge OPCION B: A low-pressure area or trough is an area of COPCION C: A high-pressure area or ridge is an area of decrease.	sing air. descending air.	С
5318 Which is true regarding high- or low-pressur OPCION A: A high-pressure area or ridge is an area of rid OPCION B: A low-pressure area or trough is an area of rid OPCION C: Both high- and low-pressure areas are chara	sing air. ising air.	В
5320 Which is true regarding actual air temperatu OPCION A: decreases as the relative humidity decreases OPCION C: increases as the relative humidity increases.		В
5322 Virga is best described as OPCION A: streamers of precipitation trailing beneath c OPCION B: wall cloud torrents trailing beneath cumulor OPCION C: turbulent areas beneath cumulonimbus cloud	nimbus clouds which dissipate before reaching the ground.	A
5323 Moisture is added to a parcel of air by OPCION A: sublimation and condensation. OPCION B: evaporation and condensation. OPCION C: evaporation and sublimation.		С

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5324	Ice pellets encountered during flight normally are evidence that	В
	a warm front has passed.	
	a warm front is about to pass.	
OPCION C:	there are thunderstorms in the area.	
5325	What is indicated if ice pellets are encountered at 8,000 feet?	A
OPCION A:	Freezing rain at higher altitude.	
	You are approachig an area of thunderstorms.	
	You will encounter hail if you continue your flight.	
	, , , ,	
5326	Ice pellets encountered during flight are normally evidence that	C
	a cold front has passed.	
OPCION B:	there are thunderstorms in the area.	
OPCION C:	freezing rain exists at hiher altitudes.	
5327	When conditionally unstable air with high-moisture content and very warm surface temperature is forecast, one	С
3321	can expect what type of weather?	C
OPCION A	Strong updrafts and stratonimbus clouds.	
	Restricted visibility near the surface over a large area.	
	Strong updrafts and cumulonimbus clouds.	
5328	What is the approximate base of the cumulus clouds if the temperature at 2,000 feet MSL is 70°F and the	C
	dewpoint is 52°F?	
	3,000 feet MSL.	
	4,000 feet MSL.	
OPCION C:	6,000 feet MSL.	
5329	If clouds form as a result of very stable, moist air being forced to ascend a mountain slope, the clouds will be	С
	cirrus type with no vertical development or turbulence.	
	cumulus type with considerable vertical development and turbulence.	
	stratus type with little vertical development and little or no turbulence.	
01 01011 01	status type with fittle vertical development and fittle of no tarbutenee.	
5330	What determines the structure or type of clouds which will form as a result of air being forced to ascend?	В
OPCION A:	The method by which the air is lifted.	
OPCION B:	The stability of the air before lifting occurs.	
OPCION C:	The relative humidity of the air after lifting occurs.	
5221	Defends the second form the fallowing METAD was at	ъ
5331	Refer to the excerpt from the following METAR report:	В
	KABI08004KT 4SM HZ26/04 A2995 RMK RAE36	
	At approximately what altitude AGL should bases of convective-type cumulifrom clouds be expected? (Use	
	quick estimate method.)	
OPCION A:	<u>*</u>	
OPCION A:	'	
OPCION B:		
or clore:	17,000 1001.	
5332	What are the characteristics of stable air?	В
OPCION A:	Good visibility; steady precipitation; stratus clouds.	
OPCION B:	Poor visibility; steady precipitation; stratus clouds.	
OPCION C:	Poor visibility; intermittent precipitation; cumulus clouds.	
5333	Which would decrease the stability of an air mass?	Λ
		A
	Warming from below.	
OLCION B:	Cooling from below.	
OPCION C.	Decrease in water vapor.	

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OPCION B:	Which is a characteristic o stable air? Cumuliform clouds. Excellent visibility. Restricted visibility.	С
OPCION B:	Which is a characteristic typical of a stable air mass? Cumuliform clouds. Showery precipitation. Continuous precipitation.	С
OPCION B:	Which is true regarding a cold front occlusion? The air ahead of the warm front is colder than the air behind the overtaking cold front. is warmer than the air behind the overtaking cold front. has the same temperature as the air behind the overtaking cold front.	В
OPCION B:	Which are characteristics of a cold air mass moving over a warm surface? Cumuliform clouds, turbulence, and poor visibility. Cumuliform clouds, turbulence, and good visibility. Stratiform clouds, smooth air, and poor visibility.	В
OPCION B:	The conditions necessary for the formation of cumulonimbus clouds are a lifting action and unstable, dry air. stable, moist air. unstable, moist air.	С
OPCION B:	Fog produced by frontal activity is a result of saturation due to nocturnal cooling. adiabatic cooling. evaporation of precipitation.	С
OPCION B:	What is an important characteristic of windshear? It is present at only lower levels and exists in a horizontal direction. It is present at any level and exists in only a vertical direction. It can be present at any level and can exist in both a horizontal and vertical direction.	С
OPCION A: OPCION B:	Hazardous wind shear is commonly encountered near warm or stationary frontal activity. when the wind velocity is stronger than 35 knots. in areas of temperature inversion and near thunderstorms.	С
OPCION B:	Low-level wind shear may occur when surface winds are light and variable. there is a low-level temperature inversion with strong winds above the inversion. surface winds are above 15 knots and there is no change in wind direction and windspeed with height.	В
	If a temperature inversion is encountered immediately after takeoff or during an approach to a landing, a potential hazard exists due to wind shear. string surface winds. strong convective currents.	A

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5355	GIVEN:	A
	Winds at 3,000 feet AGL	
OPCION B:	While approaching for a landing under clear skies a few hours after sunrise, one should increase approach airspeed slightly above normal to avoid stalling. keep the approach airspeed at or slightly below normal to compensate for floating. not alter the approach airspeed, these conditions are nearly ideal.	
5356 OPCION A: OPCION B: OPCION C:	moderate.	A
OPCION B:	When flying low over hilly terrain, ridges, or mountain ranges, the greatest potential danger from turbulent air currents will usually be encountered on the leeward side when flying with a tailwind. leeward side when flying into the wind. windward side when flying into the wind.	В
OPCION B:	During an approach, the most important and most easily recognized means of being alerted to possible wind shear is monitoring the amount of trim required to relieve control pressures. heading changes necessary to remain on the runway centerline. power and vertical velocity required to remain on the proper glidepath.	С
OPCION B:	During departure, under conditions of suspected low-level wind shear, a sudden decrease in headwind will cause a loss in airspeed equal to the decrease in wind velocity. a gain in airspeed equal to the decrease in wind velocity. no change in airspeed, but groundspeed will decrease.	A
OPCION B:	Which situation would most likely result in freezing precipitation? Rain falling from air which has a temperature of 32°F or less into air having temperature of more than 32°F. 0°C or less into air having temperature of 0°C or more. more than 32°F or less into air having temperature of 32°F or less.	С
5361 OPCION A: OPCION B:	Which statement is true concerning the hazards of hail? Hail damage in horizontal flight is minimal due to the vertical movement of hail in the clouds. Rain at the surface is a reliable indication of no hail aloft. Hailstones may be encountered in clear air several miles from a thunderstorm.	С
OPCION B:	Hail is most likely to be associated with cumulus clouds. cumulonimbus clouds. stratocumulus clouds.	В
OPCION B:	The most severe weather conditions, such as destructive winds, heavy hail, and tornadoes, are generally associated with slow-moving warm fronts which slope above the tropopause. squall lines. fast-moving occluded fronts.	В
OPCION B:	Of the following, which is accurate regarding turbulence associated with thunderstorms? Outside the cloud, shear turbulence can be encountered 50 miles laterally from a severe storm. Shear turbulence is encountered only inside cumulonimbus clouds or within a 5-mile radius of them. Outside the cloud, shear turbulence can be encountered 20 miles laterally from a severe storm.	С

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5365	If airborne radar is indicating an extremely intense thunderstorm echo, this thunderstorm should be avoided by a	A
OPCION A:	distance of at least	
OPCION B:		
OPCION C:		
or cron c.	J lines.	
5366	Which statement is true regarding squall lines?	C
OPCION A:	They are always associated with cold fronts.	
OPCION B:	They are slow in forming, but rapid in movement.	
OPCION C:	They are nonfrontal and often contain severe, steady-state thunderstorms.	
5277	W/L:-1	C
5367	Which statement is true concerning squall lines?	С
	They form slowly, but move rapidly. They are associated with frontal systems only.	
OPCION C:	They offer the most intense weather hazards to aircraft.	
5368	Select the true statement pertaining to the life cycle of a thunderstorm.	В
OPCION A:	Updrafts continue to develop throughout the dissipating stage of a thunderstorm.	
	The beginning of rain at the Earth's surface indicates the mature stage of the thunderstorm.	
	The beginning of rain at the Earth's surface indicates the dissipating stage of the thunderstorm.	
72.50		~
5369	What visible signs indicate extrem turbulence in the thunderstorms?	C
	Base of the clouds near the surface, heavy rain, and hail.	
	Low ceiling and visibility, hail, and precipitation static.	
OPCION C:	Cumulonimbus clouds, very frequent lightning, and roll clouds.	
5370	Which weather phenomenon signals the beginning of the mature stage of a thunderstorm?	A
	The start of rain.	
	The appearance of an anvil top.	
	Growth rate of clouds is maximum.	
5371	What feature is normally associated with the cumulus stage of a thunderstorm?	В
OPCION A:		
	Continuous updraft.	
OPCION C:	Beginning of rain at the surface.	
5372	During the life cycle of a thunderstorm, which stage is characterized predominately by downdrafts?	С
OPCION A:		C
OPCION B:		
OPCION C:	± ₹	
5373	What minimum distance should exist between intense radar echoes before any attempt is made to fly between	C
OBC TOTAL	these thunderstorms?	
OPCION A:		
OPCION B:		
OPCION C:	40 miles.	
5374	Which in-flight hazard is most commonly associated with warm fronts?	C
	Advection fog.	
	Radiation fog.	
	Precipitation-induced fog.	
5375	Which is true regarding the use of airborne weather-avoidance radar for the recognition of certain weather	A
ODCIONA	conditions?	
	The radarscope provides no assurance of avoiding instrument weather conditions.	
	The avoidance of hail is assured when flying between and just clear of the most intense echoes.	
OPCION C:	The clear area between intense echoes indicates that visual sighting of storms can be maintained when flying	
	between the echoes.	

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OPCION A: a light breeze moving colder air over a water surface. OPCION B: an air mass moving inland from the coastline during the winter. OPCION C: a warm, moist air mass settling over a cool surface under no-wind conditions. 5377 Advection fog has drifted over a coastal airport during the day. What may tend to dissipate or lift this fog low stratus clouds? OPCION A: Nighttime cooling. OPCION B: Surface radiation. OPCION C: Wind 15 knots or stronger. 5378 What lifts advection fog into low stratus clouds? OPCION A: Nighttime cooling. OPCION B: Dryness of the underlying land mass. OPCION C: Surface winds of approximately 15 knots or stronger. 5379 In what ways do advectin fog, radiation fog, and steam for differ in their formation or location? OPCION A: Radiation fog is restricted to land areas; advection fog is most common along coastal areas; steam fog for over a water surface. OPCION B: Advection fog deepens as windspeed increases up to 20 knots; steam fog requires calm or very light wind radiation fog forms when the ground or water cools the air by radiation. OPCION C: Steam fog forms from moist air moving over a colder surface; advection fog requires cold air over a warms surface; radiation fog is produced by radiational cooling of the ground. 5380 With respect to advection fog, which statement is true? OPCION A: It is slow to develop, and dissipates quite rapidly. OPCION B: It forms almost exclusively at night or near daybreak. OPCION C: It can appear suddenly during day or night, and it is more persistent than radiation fog.	g into C
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OPCION B: Surface radiation. OPCION C: Wind 15 knots or stronger. 5378 What lifts advection fog into low stratus clouds? OPCION A: Nighttime cooling. OPCION B: Dryness of the underlying land mass. OPCION C: Surface winds of approximately 15 knots or stronger. 5379 In what ways do advectin fog, radiation fog, and steam for differ in their formation or location? OPCION A: Radiation fog is restricted to land areas; advection fog is most common along coastal areas; steam fog for over a water surface. OPCION B: Advection fog deepens as windspeed increases up to 20 knots; steam fog requires calm or very light wind radiation fog forms when the ground or water cools the air by radiation. OPCION C: Steam fog forms from moist air moving over a colder surface; advection fog requires cold air over a warmed surface; radiation fog is produced by radiational cooling of the ground. 5380 With respect to advection fog, which statement is true? OPCION A: It is slow to develop, and dissipates quite rapidly. OPCION B: It forms almost exclusively at night or near daybreak.	С
OPCION C: Wind 15 knots or stronger. 5378 What lifts advection fog into low stratus clouds? OPCION A: Nighttime cooling. OPCION B: Dryness of the underlying land mass. OPCION C: Surface winds of approximately 15 knots or stronger. 5379 In what ways do advectin fog, radiation fog, and steam for differ in their formation or location? OPCION A: Radiation fog is restricted to land areas; advection fog is most common along coastal areas; steam fog for over a water surface. OPCION B: Advection fog deepens as windspeed increases up to 20 knots; steam fog requires calm or very light wind radiation fog forms when the ground or water cools the air by radiation. OPCION C: Steam fog forms from moist air moving over a colder surface; advection fog requires cold air over a warmed surface; radiation fog is produced by radiational cooling of the ground. 5380 With respect to advection fog, which statement is true? OPCION A: It is slow to develop, and dissipates quite rapidly. OPCION B: It forms almost exclusively at night or near daybreak.	С
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OPCION A: It is slow to develop, and dissipates quite rapidly. OPCION B: It forms almost exclusively at night or near daybreak.	С
OPCION B: It forms almost exclusively at night or near daybreak.	C
· · · · · · · · · · · · · · · · · · ·	
Which feature is associated with the tropopause?	D
5381 Which feature is associated with the tropopause? OPCION A: Constant height above the Earth.	В
OPCION B: Abrupt change in temperature lapse rate.	
OPCION C: Absolute upper limit of cloud formation.	
5382 A common location of clear air turbulence is	A
OPCION A: in an upper trough on the polar side of a jet stream.	71
OPCION B: near a ridge aloft on the equatorial side of a high-pressure flow.	
OPCION C: south of an east/west oriented high-pressure ridge in its dissipating stage.	
5383 The jet stream and associated clear and air turbulence can sometimes be visually identified in flight by	В
OPCION A: dust or haze at flight level.	Б
OPCION B: long streaks or cirrus clouds.	
OPCION C: a constant outside air temperatures.	
5384 During the winter months in the middle latitudes, the jet stream shifts toward the	В
OPCION A: north and speed decreases.	Б
OPCION B: south and speed increases.	
OPCION C: north and speed increases.	
5385 The strength and location of the jet stream is normally	A
OPCION A: weaker and farther north in the summer.	A
OPCION B: stronger and farther north in the winter.	
OPCION C: stronger and farther north in the summer.	
The conditions most favorable to wave formation over mountainous areas are a layer of	
OPCION A: stable air at mountaintop altitude and a wind of at least 20 knots blowing across the ridge.	Α
OPCION B: unstable air at mountaintop altitude and a wind of at least 20 knots	A
OPCION C: moist, unstable air at a mountaintop altitude and a wind of less than 5 knots blowing across the ridge.	A
,	A

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5447	Which type of jetstream can be expected to cause the greater turbulence?	В
OPCION A:	A straight jetstream associated with a low-pressure trough.	
OPCION B:	A curving associated with a deep low-pressure trough.	
OPCION C:	A jetstream occurring during the summer at the lower latitudes.	
5448	A strong wind shear can be expected	С
OPCION A:	in the jetstream front above a core having a speed of 60 to 90 knots.	
	if the 5°C isotherms are spaced between 7° to 10° of latitude.	
OPCION C:	on the low-pressure side of a jetstream core where the speed at the core is stronger than 110 knots.	
5450	One of the most dangerous features of mountain waves is the turbulent areas in and	A
OPCION A:	below rotor clouds.	
	above rotor clouds.	
OPCION C:	below lenticular clouds.	
5739	Frost covering the upper surface of an airplane wing usually will cause	В
	the airplane to stall at an angle of attack that is higher than normal.	
	the airplane to stall at an angle of attack that is lower than normal.	
	drag factors so large that sufficient speed cannot be obtained for takeoff.	