07/07/2008

Bank: (Instructor / Examiner Sport Pilot) Airman Knowledge Test Question Bank

The FAA computer-assisted testing system is supported by a series of supplement publications. These publications, available through several aviation publishers, include the graphics, legends, andmaps that are needed to successfully respond to certain test items. Use the following URL to download acomplete list of associated supplement books: http://www.faa.gov/education_research/testing/airmen/test_questions/media/supplements.pdf

1. PLT074 CFI
(Refer to figure 18.) A 70 percent increase in stalling speed would imply a bank angle of

- A) 67°.B) 70°.
- C) 83°.
- 2. PLT120 CFI

If severe turbulence is encountered, the aircraft's airspeed should be reduced to

- A) maneuvering speed.
- B) normal structural cruising speed.
- C) the minimum steady flight speed in the landing configuration.
- 3. PLT074 CFI

(Refer to figure 17.) A positive load factor of 4 at 140 knots would cause the airplane to

- A) stall.
- B) break apart.
- C) be subjected to structural damage.
- 4. PLT245 CFI

If an accelerated stall occurs in a steep turn, how will the aircraft respond?

- A) The inside wing stalls first because it is flying at a higher angle of attack.
- B) The outside wing stalls first because it is flying at a higher angle of attack.
- C) In a slip, the high wing stalls first; in a skid, the low wing stalls first; in coordinated flight, both wings stall at the same time.
- 5. PLT238 CFI

At a constant velocity in airflow, a high aspect ratio wing will have (in comparison with a low aspect ratio wing)

A) increased	drag, especially at a low angle of attack.	
B) decreased	d drag, especially at a high angle of attack.	
C) increased	drag, especially at a high angle of attack.	
6.	PLT238	CFI
Refer to figu	re 21.) Which aircraft has the highest aspect ratio?	
A) 2.	,	
3) 3.		
C) 4.		
7.	PLT234	CFI
	es of an aircraft intersect at the	
A) center of g		
B) center of p	pressure.	
C) midpoint o	of the mean chord.	
3.	PLT238	CFI
Aspect ratio	of a wing is defined as the ratio of the	
-	to the wing root.	
B) wingspan	to the mean chord.	
C) square of	the chord to the wingspan.	
9.	PLT480	CFI
	s nose remains in the new position after the elevator aircraft displays	control is pressed forward and
A) neutral sta	atic stability.	
B) negative s	tatic stability.	
C) positive st	atic stability.	
10.	PLT046	CFI
Refer to figu	re 20.) At the airspeed represented by point A, in ste	eady flight, the aircraft will
A) have its m	aximum lift/drag ratio.	
3) have its m	inimum lift/drag ratio.	
C) be develo	ping its maximum coefficient of lift.	
11.	PLT235	CFI
Adverse yaw	during a turn entry is caused by	
A) increased	induced drag on the lowered wing and decreased in	duced drag on the raised wing.

B) decreased indu	iced drag on the lowered wing ar	d increased induced drag on the raised wing.
C) increased para	site drag on the raised wing and	decreased parasite drag on the lowered wing.
12.	PLT168	CFI
The angle betwee	n the chord line of an airfoil and t	he relative wind is known as the angle of
A) lift.		
B) attack.		
C) incidence.		
13.	PLT246	CFI
During a steady cl	imb, the angle of climb depends	on
A) excess thrust.		
B) power available	9.	
C) thrust required.		
14.	PLT242	CFI
An aircraft wing is	designed to produce lift resulting	from
A) negative air pre surface.	essure below the wing's surface a	and positive air pressure above the wing's
B) positive air pres surface.	ssure below the wing's surface a	nd negative air pressure above the wing's
C) a larger center wing's surface.	of pressure above the wing's sur	face and a lower center of pressure below the
15.	PLT237	CFI
	ases in level flight, total drag of a aximum lift/drag speed because	n aircraft becomes greater than the total drag of the
A) increase in indu	uced drag.	
B) decrease in ind	luced drag.	
C) increase in par	asite drag.	
16.	PLT346	CFI
•	a.) While rolling into a right turn, if ors would be acting on the aircraf	the inclinometer appears as illustrated in A, the tas illustrated in
A) 2, and more lef	t pedal pressure is needed to cer	nter the ball.
B) 2, and more rig	ht pedal pressure is needed to co	enter the ball.
C) 4, and more rig	ht pedal pressure is needed to c	enter the ball.
17.	PLT242	CFI

In a propelle	er-driven airplane, maximum range occ	urs at
A) minimum	n drag required.	
B) minimum	n power required.	
C) maximur	m lift/drag ratio.	
18.	PLT168	CFI
The angle of	of attack of a wing directly controls the	
A) angle of	incidence of the wing.	
B) amount of	of airflow above and below the wing.	
C) distribution	on of positive and negative pressure ac	cting on the wing.
19.	PLT237	CFI
Why does in	ncreasing speed also increase lift?	
A) The incre	eased velocity of the relative wind over	comes the increased drag.
•	eased impact of the relative wind on an deflected downward.	airfoil's lower surface creates a greater amount
•	eased speed of the air passing over an g a greater pressure differential betwee	airfoil's upper surface increases the pressure, en the upper and lower surface.
20.	PLT477	CFI
•	would have a tendency to nose up and hen the center of pressure is	have an inherent tendency to enter a stalled
A) below the	e center of gravity.	
B) aft of the	center of gravity.	
C) forward	of the center of gravity.	
21.	PLT237	CFI
The resistar wing is called		of the air as it passes along the surface of a
A) form drag	g.	
B) profile dr	ag.	
C) parasite	drag.	
22.	PLT025	CFI
Which state	ement relates to Bernoulli's principle?	
A) For every	y action there is an equal and opposite	reaction.
B) An additi	onal upward force is generated as the	lower surface of the wing deflects air downward.
C) Air travel surface.	ling faster over the curved upper surfac	ce of an airfoil causes lower pressure on the top

23.	PLT018	CFI
(Refer to figure 19 distance per foot o) At which angle of attack does the airplane trave f altitude lost?	I the maximum horizontal
A) 6°.		
B) 12.3°.		
C) 20°.		
24.	PLT242	CFI
Lift produced by ar	n airfoil is the net force developed perpendicular to	o the
A) chord.		
B) relative wind.		
C) longitudinal axis	s of the aircraft.	
25.	PLT245	CFI
Which statement is	s true concerning the aerodynamic conditions which	ch occur during a spin entry?
	both wings remain in a stalled condition throughout	
,	all, the wing that drops remains in a stalled condi	
•	ues to produce lift, causing the rotation.	9 9
C) After a full stall,	the wing that drops continues in a stalled condition	on while the rising wing regains
and continues to p	roduce some lift, causing the rotation.	
26.	PLT168	CFI
Which statement is	s true relating to the factors which produce stalls?	
A) The critical angl	e of attack is a function of the degree of bank.	
	le of attack depends upon the speed of the airflow	v over the wings.
C) The stalling and	gle of attack is independent of the speed of airflow	over the wings.
27.	PLT168	CFI
Which action will re	esult in a stall?	
A) Flying at too lov	v an airspeed.	
B) Raising the airc	raft's nose too high.	
C) Exceeding the o	critical angle of attack.	
28.	PLT248	CFI
	f a steep-banked turn, what causes the lowered a	
when rolling into the		
A) The wing's angl	e of attack is greater as the rollout is started.	
B) The wing being	raised is traveling faster through the air than the	wing being lowered.

C) The wing be being raised.	ing lowered is traveling faster	through the air and producing more lift than the wing
29.	PLT240	CFI
If the CG of an cruising and sta		limit to beyond the forward limit, how will it affect the
A) Increase bot	h the cruising speed and stall	ing speed.
B) Decrease bo	oth the cruising speed and sta	lling speed.
C) Decrease the	e cruising speed and increase	the stalling speed.
30.	PLT480	CFI
	nose initially tends to return to d and released, the aircraft dis	its original position after the elevator control is splays
A) positive stati	c stability.	
B) neutral dyna	mic stability.	
C) negative dyr	namic stability.	
31.	PLT236	CFI
Changes in the	center of pressure of a wing	affect the aircraft's
A) lift/drag ratio		
B) lifting capaci	ty.	
C) aerodynamic	balance and controllability.	
32.	PLT244	CFI
The capability of attitude, is	of an aircraft to respond to a p	ilot's inputs, especially with regard to flightpath and
A) response.		
B) controllability	/ .	
C) maneuverab	ility.	
33.	PLT240	CFI
If an increase in	n power tends to make the no	se of an airplane rise, this is the result of the
A) line of thrust	being below the center of gra	ıvity.
B) center of lift	being ahead of the center of o	gravity.
C) center of lift	and center of gravity being co	ollocated.
34.	PLT240	CFI
As the CG loca	tion is changed, recovery fron	n a stall becomes progressively
A) less difficult	as the CG moves rearward.	

D) "(('	16 41 00	
•	ult as the CG moves rearward.	
C) more diffic	ult as the CG moves either forward	or rearward.
35.	PLT240	CFI
	acteristic of the indicated airspeed if power and altitude are maintained?	the CG is at the most forward allowable position
A) There is no	relationship between CG location	and indicated airspeed.
B) Indicated a position.	airspeed will be less than it would be	e with the CG in the most rearward allowable
C) Indicated a position.	airspeed will be greater than it woul	d be with the CG in the most rearward allowable
36.	PLT480	CFI
	n disturbed from a condition of stea	es that further remove the aircraft from its original dy flight, is known as
B) dynamic in	·	
C) positive sta	•	
o, pooi	ano onabiniy.	
37.	PLT244	CFI
The purpose	of aircraft wing dihedral angle is to	
A) increase la	iteral stability.	
B) increase Ic	ongitudinal stability.	
C) increase lit	ft coefficient of the wing.	
38.	PLT245	CFI
	ffect of center of gravity on the spin	
	may develop if the CG is too far aft	
•	s too far forward, spin entry will be	
•	s too far aft, spins can become high	
39.	PLT244	CFI
Which aircraft	t characteristics contribute to spiral	instability?
	c directional stability and weak dihe	-
B) Strong stat	tic directional stability and weak dih	edral effect.
C) Weak stati	c directional stability and strong dif	nedral effect.
40.	PLT240	CFI
An aircraft is l		it. What effect will this have on controllability?
		·

A) Stall and	spin recovery may be diffic	cult or impossible.	
B) A stall will	occur at a lower airspeed	, but recovery will be easier because of	reduced wing loading
C) A stall wil	l occur at a higher indicate	d airspeed due to the greater download	ling on the elevator.
41.	PLT245	CFI	
Which chara	cteristic of a spin is not a c	characteristic of a steep spiral?	
A) Stalled wi	ng.		
B) High rate	of rotation.		
C) Rapid los	s of altitude.		
42.	PLT131	CFI	
-	to fly an aircraft just clear vel flight at higher altitudes	of the ground at a slightly slower airspe . This is the result of	ed than that required
A) interferen	ce of the ground surface w	rith the airflow patterns about the aircra	ft in flight.
B) a cushion	ing effect of the air as it is	trapped between the ground and the de	escending aircraft.
C) ground in airspeed indi	-	ressure system which produces false in	ndications on the
43.	PLT131	CFI	
An airplane l	eaving ground effect will		
A) experienc	e a decrease in thrust req	uired.	
B) experienc	e a decrease in stability ar	nd a noseup change in moments.	
C) require a	lower angle of attack to att	tain the same lift coefficient.	
44.		PLT013	CFI
(Refer to figu	ire 30.) Determine the app	roximate crosswind component.	
Landing Rwy	1	22	
Wind		260° at 23 kts	
A) 10 knots.			
B) 15 knots.			
C) 17 knots.			
45.	PLT018	CFI	
	ire 25.) What would be the	indicated stall speed in a 60° banked t	urn with the gear and
flaps up?			
A) 110 KIAS			
B) 117 KIAS			
C) 121 KIAS			

46.		PLT006		CFI
(Refer to figure 29.)	What is the approximate	e glide distance?		
Height above terrair	ı	10,500 ft		
Tailwind		20 kts		
A) 24 miles.				
B) 26 miles.				
C) 28 miles.				
47 .	PLT004		CFI	
(Refer to figure 27.) altitude for a given o A) 94 KIAS. B) 113 KIAS. C) 115 KIAS.		d at 3,000 feet would resu	ult in the greatest incr	ease in
48.		PLT012		CFI
	Determine the takeoff di	stance required to clear	a 50-foot obstacle	011
Temperature	Dotorrillo trio tarcom di	23 °C	a do foot obotadio.	
Pressure altitude		3,000 ft		
Weight		2,400 lb		
Headwind		15 kts		
A) 653 feet.				
3) 718 feet.				
C) 754 feet.				
49.		PLT005		CFI
(Refer to figure 24.)	Determine the density a	ltitude.		
Airport elevation		3,795 ft		
TAC		24 °C		
Altimeter setting		29.70 inches Hg		
A) 5,900 feet.				
3) 5,700 feet.				
C) 4,000 feet.				
50.	PLT005		CFI	
	What is the effect of a tear	emperature increase fron 000 feet MSL?	n 30 to 50 °F on the c	lensity
A) 900-foot increase	9.			

B) 1,100-foot decrea	ase.		
C) 1,300-foot increa	ase.		
		DI Too	051
51.		PLT008	CFI
	What is the total landing distance over		
Temperature		15 °C	
Pressure altitude		4,000 ft	
Weight		3,000 lb	
Headwind		22 kts	
A) 1,250 feet.			
B) 1,175 feet.			
C) 1,050 feet.			
52.	PLT019	CFI	
altimeter setting of 2	Determine the pressure altitude at an 29.96.	amport that is 3,363 feet MSL with	an
A) 3,527 feet MSL.			
B) 3,556 feet MSL.			
C) 3,639 feet MSL.			
o, o,ooo 1001 111021			
53.	PLT127	CFI	
Which statement is	true regarding takeoff performance wit	h high density altitude conditions?	,
A) The acceleration	rate will increase since the lighter air of	creates less drag.	
B) The acceleration	rate is slower because the engine and	I propeller efficiency is reduced.	
C) A higher-than-no	ormal indicated airspeed is required to p	produce sufficient lift since the air	is less
dense.			
54.	PLT312	CFI	_
	chnique for minimizing the wing-load fa	, ,	nce?
,	with power, maintain wings level, and	·	
B) Control airspeed and altitude.	as closely as possible with elevator ar	nd power, and accept variations of	bank
•	im to obtain an airspeed at or below mas of airspeed and altitude.	aneuvering speed, maintain wings	s level,
55.	PLT207	CFI	
	n failure (battery and alternator) occurs		would
-	nics equipment failure.	and the state of t	
-,,,,,,,,,,			

B) probably experience failure of the engine ignition system, fuel gaug and avionics equipment.	ges, aircraft lighting system,
C) probably experience engine failure due to the loss of the engine-drexperience failure of the radio equipment, lights, and all instruments the	
PLT305 Which type of flap creates the least change in pitching moment? A) Split. B) Fowler. C) Slotted.	CFI
PLT473 (Refer to figure 23.) Which is a slotted flap? A) 1. B) 3. C) 4.	CFI
PLT215 In the Northern Hemisphere, a magnetic compass will normally indicated A) a left turn is entered from a west heading. B) an aircraft is decelerated while on an east or west heading. C) an aircraft is accelerated while on an east or west heading.	CFI te a turn toward the north if
Durch PLT023 Under what condition is indicated altitude the same as true altitude? A) If the altimeter has no mechanical error. B) When at sea level under standard conditions. C) When at 18,000 feet MSL with the altimeter set at 29.92.	CFI
PLT023 What is true altitude? A) The vertical distance of the aircraft above sea level. B) The vertical distance of the aircraft above the surface. C) The height above the standard datum plane.	CFI
PLT023 What is absolute altitude? A) The altitude read directly from the altimeter.	CFI

,	distance of the aircraft above the standard datum plane	
62.	PLT215	CFI
	e the indication on the magnetic oth heading in the Northern Her	compass as you roll into a standard rate turn to the nisphere?
A) The compas	s will initially indicate a turn to t	he left.
B) The compas	s will indicate a turn to the right	t, but at a faster rate than is actually occurring.
C) The compas heading of the a		ort time, then gradually catch up to the magnetic
63.	PLT118	CFI
Which instrume	ent would be affected by excess	sively low pressure in the airplane's vacuum system?
A) Heading indi	cator.	
B) Airspeed ind	licator.	
C) Pressure alti	imeter.	
64.	PLT251	CFI
The amount of	water absorbed in aviation fuel	s will
A) remain the s	ame regardless of temperature	changes.
B) increase as t	the temperature of the fuel incr	eases.
C) increase as	the temperature of the fuel dec	reases.
65.	PLT253	CFI
	ge water from the fuel system or rain, it is necessary to drain fue	of an aircraft equipped with fuel tank sumps and a fuel el from the
A) fuel strainer	drain.	
B) lowest point	in the fuel system.	
C) fuel strainer	drain and the fuel tank sumps.	
66.	PLT253	CFI
strainer quick d	rain, it is necessary to drain fue	of an aircraft equipped with fuel tank sumps and a fuel el from the
A) fuel strainer		
	in the fuel system.	
	drain and the fuel tank sumps.	
67.	PLT278	CFI
What airspeed	indicator marking identifies the	maximum structural cruising speed of an aircraft?

,	line. t of the green arc. t of the yellow arc.	
68. The pitot sys A) Altimeter.	PLT337 tem provides impact pressure	CFI for which instrument?
,	peed indicator.	
C) Airspeed		
69.	PLT337	CFI
• •		the stall occurs and the pointer on the airspeed indicator of the white arc on the indicator. This is most probably
A) a low dens	sity altitude.	
B) a malfunc	tion in the pitot-static system.	
C) installation	n error in the pitot-static systen	n.
70.	PLT190	CFI
	perature that causes carbureto be result of the	r ice in an engine equipped with a float-type carburetor
A) compress	on of air at the carburetor ven	turi.
B) freezing to	emperature of the air entering t	he carburetor.
C) vaporizati	on of fuel and expansion of air	in the carburetor.
71.	PLT190	CFI
	e of carburetor ice in an aircraf ouretor heat and noting	t equipped with a fixed-pitch propeller can be verified by
A) a decreas	e in RPM and then a constant	RPM indication.
B) a decreas	e in RPM and then a gradual i	ncrease in RPM.
C) an increas	se in RPM and then a gradual	decrease in RPM.
72.	PLT191	CFI
The operatin	g principle of float-type carbure	etors is based on the
A) measuren	nent of the fuel flow into the inc	duction system.
B) difference	in air pressure at the venturi the	nroat and the throttle valve.
C) increase i	n air velocity in the throat of a	venturi causing a decrease in air pressure.
73.	PLT343	CFI

Excessively high eno	gine temperatures, either in the air or on the grou	und, will	
A) increase fuel consumption and may increase power due to the increased heat.			
B) result in damage	B) result in damage to heat-conducting hoses and warping of cylinder cooling fans.		
C) cause loss of pow damage.	ver, excessive oil consumption, and possible per	manent internal engine	
74.	PLT342	CFI	
What action can a pi	ilot take to aid in cooling an engine that is overhe	eating during a climb?	
A) Reduce rate of cli	imb and increase airspeed.		
•	eed and increase RPM.		
C) Increase climb sp	peed and increase RPM.		
75.	PLT343	CFI	
Excessively high eng	gine temperatures will		
A) cause damage to	heat-conducting hoses and warping of the cylind	der cooling fins.	
B) cause loss of pow damage.	ver, excessive oil consumption, and possible per	manent internal engine	
C) not appreciably a	ffect an aircraft engine.		
76.	PLT343	CFI	
Excessively high engine temperatures, either in the air or on the ground, will			
A) increase fuel cons	sumption and may increase power due to the inc	creased heat.	
B) result in damage	to heat-conducting hoses and warping of cylinde	er cooling fans.	
C) cause loss of pow damage.	ver, excessive oil consumption, and possible per	manent internal engine	
77.	PLT253	CFI	
Proper mixture control and better economy in the operation of a fuel injected engine can be achieved best by use of			
A) a fuel-flow gauge.	-		
	emperature indicator.		
C) the recommended	d manifold and RPM setting for a particular altitu	de.	
78.	PLT115	CFI	
Detonation occurs in	a reciprocating aircraft engine when		
A) the spark plugs a	re fouled or shorted out or the wiring is defective		
	ombustion chamber ignite the fuel/air mixture in arge in the cylinders explodes instead of burning	_	

79.	PLT115	CFI
	that the engine (with a fixed corrective action to take wor	d-pitch propeller) is detonating during climb-out after uld be to
A) lean the mixtur	e.	
B) lower the nose	slightly to increase airspeed	d.
C) apply carbureto	or heat.	
80.	PLT478	CFI
The uncontrolled t	firing of the fuel/air charge ir	n advance of normal spark ignition is known as
A) combustion.		
B) pre-ignition.		
C) detonation.		
81.	PLT479	CFI
What should be th	ne first action after starting a	n aircraft engine?
A) Adjust for prop	er RPM and check for desire	ed indications on the engine gauges.
B) Place the magr grounding.	neto or ignition switch mome	entarily in the OFF position to check for proper
C) Test each brak	e and the parking brake.	
82.	PLT253	CFI
Which statement i	s true regarding fouling of the	ne spark plugs of an aircraft engine?
A) Spark plug foul	ling results from operating w	rith an excessively rich mixture.
B) Carbon fouling cylinder head tem		d primarily by operating an engine at excessively high
•	t in the combustion chambe ork plug and this fouls the plu	r of a cylinder causes oil to form on the center ug.
83.	PLT253	CFI
As flight altitude increases, what will occur if no leaning is made with the mixture control?		
A) The volume of	air entering the carburetor of	lecreases and the amount of fuel decreases.
B) The density of	air entering the carburetor d	lecreases and the amount of fuel increases.
C) The density of	air entering the carburetor of	decreases and the amount of fuel remains constant.
84.	PLT115	CFI
Detonation in an a	aircraft engine is most likely	to occur whenever the
A) fuel/air ratio is	such that the mixture burns	extremely slow.
B) engine is opera	ated under conditions which	cause the fuel mixture to burn instantaneously.
C) fuel being used	d is of a higher grade than re	ecommended by the engine manufacturer.

85.	PLT324	CFI
An abnormal	lly high engine oil temperature in	dication may be caused by
A) the oil lev	el being too low.	
B) operating	with a too high viscosity oil.	
C) operating	with an excessively rich mixture	·.
86.	PLT324	CFI
For internal of	cooling, reciprocating aircraft en	gines are especially dependent on
A) a properly	functioning thermostat.	
B) air flowing	g over the exhaust manifold.	
C) the circula	ation of lubricating oil.	
87.	PLT343	CFI
During which	n stroke of a reciprocating engine	e is the gaseous mixture expanding within the cylinder?
A) Power.		
B) Intake.		
C) Compress	sion.	
88.	PLT351	CFI
The reason f	for variations in geometric pitch ((twisting) along a propeller blade is that it
A) prevents t	the portion of the blade near the	hub to stall during cruising flight.
B) permits a	relatively constant angle of attac	ck along its length when in cruising flight.
C) permits a	relatively constant angle of incid	dence along its length when in cruising flight.
89.	PLT351	CFI
Propeller slip	is the difference between the	
A) geometric	pitch and blade angle of the pro	ppeller.
B) geometric	pitch and the effective pitch of t	he propeller.
C) plane of r	otation of the propeller and forwa	ard velocity of the aircraft.
90.	PLT095	CFI
A propeller rerotate the air	_	the rear, creates a spiraling slipstream that tends to
A) right arou	nd the vertical axis, and to the le	eft around the longitudinal axis.
	d the vertical axis, and to the rigl	-
•	d the vertical axis, and to the left	-

91.	PLT435	CFI
•	ng practice, all inbound traffic to an airport withou or the appropriate facility from a distance of	t a control tower should
B) 20 miles.		
C) 10 miles.		
<i>O)</i> 10 mmco.		
92.	PLT116	CFI
Local Airport Adviso	ory service is usually available at all airports	
A) with operating co	ontrol towers.	
B) where a Flight Se	ervice Station is located on the airport.	
C) located in Class	C airspace and within 10 NM of the primary airpo	rt.
93.	PLT141	CFI
What is the purpose	e for the runway hold position markings on the tax	iway?
A) Identifies area wl	here aircraft are prohibited.	·
B) Holds aircraft sho	ort of the runway.	
C) Allows an aircraf	t permission onto the runway.	
94.	PLT141	CFI
What is the purpose		
,	area where aircraft are prohibited from entering.	
•	at does not continue beyond intersection.	
C) Identifies the exit	boundary for the runway protected area.	
95.	PLT141	CFI
What does a series	of arrows painted on the approach end of a runw	ay signify?
A) That area is restr	ricted solely to taxi operations.	
B) That portion of th	e runway is not suitable for landing.	
C) That portion of the	ne runway is the designated touchdown zone.	
96.	PLT141	CFI
The numbers 8 and approximately	26 on the approach ends of the runway indicate	that the runway is orientated
A) 008° and 026° tru	ue.	
B) 080° and 260° tru	ue.	
C) 080° and 260° m	agnetic.	

97.	PLT141	CFI
What does th	ne outbound destination sign id	dentify?
A) Identifies	entrance to the runway from a	taxiway.
B) Identifies	direction to take-off runways.	
C) Identifies	runway on which an aircraft is	located.
98.	PLT141	CFI
When exiting	the runway, what is the purpo	se of the runway exit sign?
A) Indicates of	direction to take-off runway.	
B) Indicates	designation and direction of ex	kit taxiway from runway.
C) Indicates	designation and direction of ta	xiway leading out of an intersection.
99.	PLT141	CFI
When approa	aching taxiway holding lines fro	om the side with the continuous lines, the pilot
A) may contir	nue taxiing.	
B) should not	t cross the lines without ATC of	elearance.
C) should cor	ntinue taxiing until all parts of	the aircraft have crossed the lines.
100.	PLT141	CFI
When turning sign?	g onto a taxiway from another	taxiway, what is the purpose of the taxiway directional
A) Indicates	direction to take-off runway.	
B) Indicates	designation and direction of ex	kit taxiway from runway.
C) Indicates	designation and direction of ta	xiway leading out of an intersection.
101.	PLT141	CFI
What is the p	ourpose of the taxiway ending	marker sign?
A) Identifies a	area where aircraft are prohibi	ted.
B) Indicates t	taxiway does not continue bey	ond intersection.
C) Provides (general taxiing direction to nar	ned taxiway.
102.	PLT141	CFI
What is the p	ourpose of the yellow demarca	tion bar marking?
A) Delineates the runway.	s runway with a displaced thre	shold from a blast pad, stopway or taxiway that precedes
B) Delineates	s entrance to runway from a ta	xiway.
C) Delineates		e for landing when pavement is aligned with runway on

103.	PLT141	CFI
What purpose do	es the taxiway location sign	serve?
A) Identifies taxiv	way on which an aircraft is lo	cated.
B) Provides gene	eral taxiing direction to name	d runway.
C) Denotes entra	ance to runway from a taxiwa	ıy.
104.	PLT141	CFI
What is the purp	ose of the runway/runway ho	ld position sign?
A) Denotes entra	ance to runway from a taxiwa	y.
B) Denotes area	protected for an aircraft app	roaching or departing a runway.
C) Denotes inter	secting runways.	
105.	PLT112	CFI
To help prevent o strong quartering		t tricycle-gear airplanes (especially high-wing type) in
A) elevator shou	ld be placed in the up positio	n.
B) elevator shoul	ld be placed in the down pos	ition.
C) aileron on the	downwind side should be pl	aced in the down position.
106.	PLT196	CFI
	•	an ATIS broadcast indicates that
•	itions are at or above VFR m	
•	ion is clear and visibility is ur	
C) the ceiling is a	at least 5,000 feet and visibili	ty is 5 miles or more.
107.	PLT146	CFI
		licates that the airport traffic pattern is
	Rwy 17 and right-hand for Rw	
•	Rwy 35 and right-hand for R	
	Rwy 35 and right-hand for Rw	
o) leit-hand for t	twy 55 and fight-fland for ftw	, y 17.
108.	PLT150	CFI
The recommend	ed entry position to an airpor	t traffic pattern is
	e leg just below traffic patter	
•		nd leg at traffic pattern altitude.
•	•	attern altitude and join the downwind leg.
,		,
109.	PLT509	CFI

During a takeoff made be wingtip vortices by	hind a departing large jet airplane, the pilot ca	in minimize the hazard of
0.1	t's flightpath until able to turn clear of its wake	ı.
	oll and not rotating until well beyond the jet's r	
	reaching the jet's flightpath until able to turn of	•
-, · · · · · · · · · · · · · · · · · · ·	3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
110.	PLT509	CFI
How does the wake turbu	lence vortex circulate around each wingtip?	
A) Inward, upward, and a	round each tip.	
B) Inward, upward, and co	ounterclockwise.	
C) Outward, upward, and	around each tip.	
	DI Tono	
111. 	PLT393	CFI
Flight through a restricted A) filed an IFR flight plan.	I area should not be accomplished unless the	pilot has
	ation from the controlling agency.	
•	ion from the commanding officer of the neares	et military hase
c) received phor permissi	ion from the commanding officer of the heares	st military base.
112.	PLT161	CFI
Within the contiguous Uni	ited States, the floor of Class A airspace is	
A) 14,500 feet MSL.		
B) 18,000 feet MSL.		
C) 18,000 feet AGL.		
113.	PLT040	CFI
(Refer to figure 47.) Whick shelf areas?	h altitude (box 1) is applicable to the vertical e	extent of the surface and
A) 3,000 feet AGL.		
B) 3,000 feet above airpo	rt.	
C) 4,000 feet above airpo	rt.	
114.	PLT040	CFI
	is the radius of the shelf area (circle A)?	
A) 5 miles.		
B) 10 miles.		
C) 15 miles.		
115.	PLT064	CFI

(Refer to figure 46.) V Airport (area 2)? A) 2,500 feet AGL. B) 4,000 feet MSL. C) 6,000 feet MSL.	Vhat is the ceiling of the	Class C airspace surrou	nding San Jose International
116.	PLT064		CFI
(Refer to figure 45.) A operation into Cuddih		sion, what minimum avior	ics equipment is required for
A) Two-way radio cor	mmunications equipmen	t.	
B) None, if altitude re	mains at or below 1,200) feet MSL.	
C) Two-way radio cor	mmunications equipmer	nt and transponder with er	ncoding altimeter.
117.	PLT161		CFI
Normally, the vertical the surface?	limits of Class D airspa	ce extend up to and inclu	ding how many feet above
A) 2,500 feet.			
B) 3,000 feet.			
C) 4,000 feet.			
118.	PLT064		CFI
(Refer to figure 44.) V 1)? A) Surface. B) 700 feet AGL. C) 4,000 feet MSL.	Vhere does the floor of o	controlled airspace begin	over Saginaw Airport (area
o) 1,000 100t MCL.			
119.	PLT161		CFI
With certain exception to, but does not include A) 10,000 feet MSL. B) 14,500 feet MSL. C) 18,000 feet MSL.		tends upward from either	700 feet or 1,200 feet AGL
120.	PLT161		CFI
tower, a pilot must	t within Class C airspace		vithout an operating control
B) contact ATC as so	on as practicable after t	akeoff.	

C) secure prior approval	from ATC before takeoff at the airport.	
121.	PLT064	CFI
•	t minimum avionics equipment is necessary to orthwest Airport (area 2)?	o operate in the airspace up
B) Transponder and enco	oding altimeter.	
C) Two-way radio commu	unications equipment, transponder, and encod	ling altimeter.
122.	PLT393	CFI
A) must operate only who B) should exercise extrer	a military operations area (MOA), a pilot en military activity is not being conducted. me caution when military activity is being conducte from the controlling agency prior to entering	
123.	PLT064	CFI
	t are the requirements for operating in the alei	
A) Contact with approach	control on frequency 120.9 is required.	
•	be obtained from the controlling agency.	
C) There are no requirem training.	nents, but pilots should be extremely cautious	due to extensive student
124.	PLT162	CFI
When a control tower, loowhat happens to the airs	cated on an airport within Class D airspace, ce pace designation?	eases operation for the day,
A) The airspace designat	ion normally will not change.	
B) The airspace remains system is available.	Class D airspace as long as a weather observ	ver or automated weather
C) The airspace reverts tower is not in operation.	o Class E or a combination of Class E and G	airspace during the hours the
125.	PLT170	CFI
What normally results fro A) Bouncing. B) Floating. C) Ballooning.	m excessive airspeed on final approach?	
126.	PLT195	CFI

What could be a result of	a student focusing too far ahead during a land	ling approach?	
A) Reactions will be either too abrupt or too late.			
B) Rounding out too high	and developing an excessive sink rate.		
C) Difficulty in judging the	closeness of the ground resulting in a nose-fi	rst touchdown.	
127.	PLT195	CFI	
Most midair collision accid	dents occur during		
A) hazy days.			
B) clear days.			
C) cloudy nights.			
128.	PLT370	CFI	
reference the controller us	ller issues radar traffic information in relation to ses is the aircraft's	o the 12-hour clock, the	
A) true course.			
B) ground track.			
C) magnetic heading.			
129.	PLT170	CFI	
Under normal conditions, a proper crosswind landing on a runway requires that, at the moment of touchdown, the			
A) direction of motion of the	ne aircraft and its longitudinal axis be parallel	to the runway.	
B) downwind wing be lower	ered sufficiently to eliminate the tendency for	the aircraft to drift.	
C) direction of motion of the	he aircraft and its lateral axis be perpendicular	to the runway.	
130.	PLT208	CFI	
If an emergency situation requires a downwind landing, pilots should expect a faster			
A) airspeed at touchdown	, a longer ground roll, and better control throu	ghout the landing roll.	
B) groundspeed at touchd touchdown point.	down, a longer ground roll, and the likelihood of	of overshooting the desired	
C) groundspeed at touchd desired touchdown point.	down, a shorter ground roll, and the likelihood	of undershooting the	
131.	PLT244	CFI	
If poor aircraft controllabili cause is most probably du	ity is experienced during an emergency go-ardue to	ound with full flaps, the	
A) excessive airspeed with full flaps extended.			
B) the high-power, low-airspeed situation with the airplane trimmed for a full-flap configuration.			

C) a reduction ii impaired.	n the angle of attack with full fla	ps to the point where the aircraft control is greatly
132.	PLT219	CFI
Select the four f	light fundamentals involved in r	naneuvering an aircraft.
A) Aircraft powe	er, pitch, bank, and trim.	-
B) Starting, taxii	ng, takeoff, and landing.	
C) Straight-and-	level flight, turns, climbs, and d	escents.
133.	PLT219	CFI
What will cause turn entry?	the nose of an aircraft to move	in the direction of the turn before the bank starts in a
A) Rudder being	g applied too late.	
B) Rudder beinç	g applied too soon.	
C) Failure to ap	ply back elevator pressure.	
134.	PLT086	CFI
Which would lik	ely result in a slipping turn?	
A) Not holding b	oottom rudder in a turn.	
B) Increasing th	e rate of turn without using rudo	der.
C) Increasing th	e rate of turn without increasing	y bank.
135.	PLT219	CFI
_	nt situations should be covered nd maintenance of	when teaching slow flight. These are the
A) airspeeds ap	propriate for landing approache	es, and flight at reduced airspeeds.
B) an airspeed v can be made fro	9	cation, and an airspeed at which complete recovery
•		ng on the back side of the power curve, and an eld full-back with no further loss of control.
136.	PLT219	CFI
(Refer to figure 90°?	48.) In flying the rectangular co	urse, when would the aircraft be turned less than
A) Corners 1 an	d 4.	
B) Corners 1 an	d 2.	
C) Corners 2 an	nd 4.	
137.	PLT258	CFI

•	, <u> </u>	practice turns around a point using a bank that is not best to start at which of the positions shown?
138.	PLT258	CFI
		most nearly equal in which positions?
139.	PLT219	CFI
(Refer to figure 5 A) 4 and 5. B) 3 and 4. C) 2 and 5.	0.) During S-turn practice, wh	ich positions require the steeper angle of bank?
140.	PLT219	CFI
of the road than	, .	a consistently smaller half-circle is made on one side not completed before crossing the road or reference
	·	apidly during the latter part of the turn.
B) 4-5-6 because	e the bank is increased too ra	pidly during the early part of the turn.
C) 4-5-6 because	e the bank is increased too slo	owly during the latter part of the turn.
141.	PLT477	CFI
The objective of	a cross-control stall demonstr	ation is to
B) teach the prop	ct of improper control technique	during a landing approach. I this type of stall occur during final approach. Le and emphasize the importance of coordinated
142.	PLT245	CFI
		bing right turn, what may occur if the aircraft stalls?
A) A spin to the lo		
B) A tendency toC) A tendency to	•	
o, A terruency to	TOIL TO THE HIGHT.	

143.	PLT486	CFI
The indicated li	ift-off airspeed for short-field take	eoffs in a particular aircraft will normally be
A) the same as	for soft- or rough-field takeoffs.	
B) greater than	for soft- or rough-field takeoffs.	
C) greater unde	er tailwind conditions than requir	ed under headwind conditions.
144.	PLT486	CFI
When explainin state that	ng the techniques used for makir	ng short- and soft-field takeoffs, it would be correct to
A) during soft-fi	ield takeoffs, lift-off should be ma	ade as soon as possible.
B) during soft-fi	ield takeoffs, lift-off should be ma	ade only when best angle-of-climb speed is attained.
C) during short attained.	-field takeoffs, lift-off should be a	attempted only after best rate-of-climb speed is
145.	PLT103	CFI
Hazardous attit hazardous attiti	· ·	e degree at some time. What are some of these
A) Poor risk ma	anagement and lack of stress ma	anagement.
B) Antiauthority	, impulsivity, macho, resignatior	n, and invulnerability.
C) Poor situation	onal awareness, snap judgments	s, and lack of a decision making process.
146.	PLT022	CFI
In the aeronaut hazardous attiti	• • • • • • • • • • • • • • • • • • • •	cess, what is the first step in neutralizing a
A) Making a rat	tional judgement.	
B) Recognizing	hazardous thoughts.	
C) Recognizing	the invulnerability of the situation	on.
147.	PLT103	CFI
_		attitude toward flying, a pilot should
•	the need to complete the flight.	_
•	Assessment Hazardous Attitude	•
C) obtain both i	realistic and thorough flight instr	uction during training.
148.	PLT103	CFI
Hazardous attit	tudes which contribute to poor pi	ilot judgment can be effectively counteracted by
A) an appropria		
B) early recogn	nition of these hazardous attitude	es.
C) taking mean	ningful steps to be more assertive	e with attitudes.

149.	PLT103	CFI
The aeronautical demaking. One of the		cess identifies several steps involved in good decision
A) developing a 'car	n do' attitude.	
B) making a rationa	I evaluation of the require	d actions.
C) identifying perso	nal attitudes hazardous to	safe flight.
150.	PLT232	CFI
•		angerous tendencies or behavior problems at some behavior patterns which must be identified and
A) deficiencies in in	strument skills and knowle	edge of aircraft systems or limitations.
B) peer pressure, sereserves.	cud running, loss of situati	onal awareness, and operating with inadequate fuel
C) performance def problems.	iciencies due to stress fro	m human factors such as fatigue, illness, or emotional
151.	PLT270	CFI
Examples of classic	behavioral traps that exp	erienced pilots may fall into are to
A) assume addition	al responsibilities and ass	ert PIC authority.
B) promote situation	nal awareness and then ne	ecessary changes in behavior.
C) complete a flight	as planned, please passe	engers, meet schedules, and 'get the job done.'
		a
152.	PLT481	CFI
When should a flight A) Beginning with the		g aeronautical decision making (ADM) to a student?
B) As soon as the s	tudent is able to control th	e aircraft during basic maneuvers.
C) After the student	has completed the initial	solo flight but before conducting cross country flights.
153.	PLT022	CFI
	undamental risk elements liven aviation situation?	in the aeronautical decision making (ADM) process
A) Pilot, aircraft, en	vironment, and mission.	
B) Skill, stress, situa	ational awareness, and air	craft.
C) Situational aware	eness, risk management,	udgment, and skill.
154.	PLT022	CFI
	as part of the aeronautica he risks associated with e	I decision making (ADM) process, relies on which ach flight?

B) Situational aw	, ,	
155.	PLT271	CFI
-	cess consists of six elements tision making. These elements	o help provide a pilot a logical way of approaching are to
A) detect, estima	te, choose, identify, do, and ev	aluate.
B) determine, eva	aluate, choose, identify, do, an	d eliminate.
C) estimate, dete	ermine, choose, identify, detect	, and evaluate.
156.	PLT194	CFI
Which technique and-level flight?	should a student be taught to	scan for traffic to the right and left during straight-
A) Continuous sv	veeping of the windshield from	right to left.
B) Concentrate o	n relative movement detected	in the peripheral vision area.
C) Systematically	/ focus on different segments of	of the sky for short intervals.
157.	PLT098	CFI
		s not required a controlled ascent and will be flying the recommended waiting time is at least
158.	PLT332	CFI
Hyperventilation	results in	
A) a lack of carbo	on dioxide in the body.	
B) breathing too	rapidly causing a lack of oxyge	n.
C) a need to incr	ease the flow of supplemental	oxygen.
159.	PLT329	CFI
What suggestion	could you make to students w	ho are experiencing motion sickness?
A) Recommend t	aking medication to prevent m	otion sickness.
B) Have the stud	ents lower their head, shut the	ir eyes, and take deep breaths.
C) Tell the studer the aircraft.	nts to avoid unnecessary head	movement and to keep their eyes on a point outside

B) reduced barome	PLT330 ult of gen in the bloodstream. etric pressures at altitude ount of oxygen as your al	
B) Reduces the ox	ight vision by up to 50 pe ygen-carrying capability	
A) Haze causes the B) The eyes tend t	e eyes to focus at infinity o overwork in haze and o	CFI o see traffic or terrain features during flight? do not detect relative movement easily. e farther away than their actual distance.
163. The angular differe A) magnetic deviat B) magnetic variati C) compass accele	on.	CFI and magnetic north is
164. How far will an aird A) 2.45 NM. B) 3.35 NM. C) 4.08 NM.	PLT012 craft travel in 2-1/2 minute	CFI es with a groundspeed of 98 knots?
· · · · · · · · · · · · · · · · · · ·	• .	PLT012 CFI d at 1500 hours and the plan is to reach point B at 1530 ermine the indicated airspeed required to reach point B
Distance between Forecast wind Pressure altitude Ambient temperatu		70 NM 310° at 15 kts 8,000 ft -10 °C

True course	270°	
The required indicated air	rspeed would be approximately	
A) 126 knots.		
B) 137 knots.		
C) 152 knots.		
,		
166.	PLT198	CFI
When converting from tru	e course to magnetic heading, a pilot should	
A) subtract easterly variat	tion and right wind correction angle.	
B) add westerly variation	and subtract left wind correction angle.	
C) subtract westerly varia	tion and add right wind correction angle.	
167.	PLT012	CFI
	ine from point A to point B of the wind triangl	
A) true heading and airsp		
B) true course and ground		
C) groundspeed and true	•	
, ,		
168.	PLT012	CFI
	results in a ground track of 130° and a true a	rspeed of 135 knots results in
•	ots, the wind would be from	
A) 019° and 12 knots.		
3) 200° and 13 knots.		
C) 246° and 13 knots.		
169.	PLT101	CFI
	ongitude and latitude is true?	011
A) Lines of longitude are		
,	s the Equator at right angles.	
•	passes through Greenwich, England.	
o)o oo oaaao p	acces in cag. Creening, Ingland	
170.	PLT064	CFI
Refer to figure 46.) What	does the figure 24 (area 6) indicate?	
A) Maximum elevation fig	ure for that quadrangle.	
3) Minimum safe altitude	when approaching San Francisco.	
C) Height above ground o	of the tallest obstruction for that quadrangle.	
174	DI T070	051
171.	PLT078	CFI

Information concerning pa A) NOTAM's.	rachute jumping sites may be found in the	
B) Airport/Facility Director	V .	
C) Graphic Notices and Si		
172.	PLT113	CFI
If the certification category which maneuvers?	of an airplane is listed as 'utility,' it means the	e airplane is intended for
A) Any type of acrobatic m	naneuver.	
B) All nonacrobatic maneu	uvers plus limited acrobatics including spins.	
C) Any maneuver incident	to normal flying except acrobatics or spins.	
173.	PLT395	CFI
Which is a definition of the	e term 'crewmember'?	
•	erform duty in an aircraft during flight time.	
B) Any person assigned to	duty in an aircraft during flight except a pilot	or flight engineer.
C) Only a pilot, flight engir	neer, or flight navigator assigned to duty in an	aircraft during flight time.
174.	PLT432	CFI
Regulations concerning th	e operational control of a flight refer to	
A) the specific duties of ar	ny required crewmember.	
B) exercising the privilege	s of pilot in command of an aircraft.	
C) exercising authority over	er initiating, conducting, or terminating a flight	
175.	PLT484	CFI
Which is the correct symb	ol for the minimum steady flight speed at which	ch an airplane is controllable?
A) Vs.		
B) Vs1.		
C) Vso.		
176.	PLT405	CFI
A person whose Flight Ins	tructor Certificate has been suspended may r	not
A) give flight training, but r	may apply for a rating to be added to that cert	ificate.
B) apply for any rating to b	pe added to that certificate during the period o	of suspension.
C) apply for any Flight Ins	tructor Certificate for a period of 1 year after the	he date of the suspension.
177.	PLT419	CFI
A flight instructor applican	t must demonstrate spins in an airplane or glie	der when

B) being retested demonstrated dur		al proficiency on stall awareness or spins
C) the airplane or being given an ini	-	tical test is certificated for spins and the applicant is
178.	PLT457	CFI
What is the durati	on of a Student Pilot Certifica	te?
A) Indefinite.		
B) 12 calendar me	onths from the month in which	ı it was issued.
C) 24 calendar m	onths from the month in which	ı it was issued.
179.	PLT482	CFI
What minimum do rating?	ocumentation is required to ta	ke an FAA knowledge test for any flight instructor
A) Proper identific	cation.	
B) Proof of satisfa	actory completion of the appro	priate ground training or home study course.
C) Authorization f record.	rom an FAA inspector who ha	as verified and endorsed the applicant's training
180.	PLT418	CFI
• •	failed a knowledge test for the dinstructor, when may the ap	e second time. With training and an endorsement oplicant apply for a retest?
A) immediately.		
B) After 5 days.		
C) After 30 days.		
181.	PLT508	CFI
•	nder installed in an aircraft ha	as not been tested, inspected, and found to comply is the limitation on its use?
A) Its use is not p	ermitted.	
B) It may be used	anywhere except in Class A	and B airspace.
C) It may be used	I for VFR flight but not for IFR	flight.
182.	PLT445	CFI
Which preflight ac	ction is required for every fligh	t?
A) Check weather	r reports and forecasts.	
B) Determine run	way length at airports of inten-	ded use.
C) Determine alte	rnatives if the flight cannot be	completed.

A) the practical test for initial certification is being given.

183.	PLT430	CFI
To operate an aircr	aft over any congested are	ea, a pilot should maintain an altitude of at least
A) 500 feet above t	he highest obstacle within	a horizontal radius of 1,000 feet.
B) 1,000 feet above	the highest obstacle with	in a horizontal radius of 2,000 feet.
C) 2,000 feet above	e the highest obstacle with	in a horizontal radius of 1,000 feet.
184.	PLT052	CFI
What is the correct	departure procedure at a	noncontrolled airport?
A) The FAA-approv	ved departure procedure fo	or that airport.
B) Make all left turn	ns, except a 45° right turn o	on the first crosswind leg.
C) Departure in any	/ direction consistent with	safety, after crossing the airport boundary.
185.	PLT161	CFI
What minimum pilo	t certificate will permit a pi	lot to enter all Class B airspace?
A) Private Pilot Cer	tificate.	
B) Commercial Pilo	t Certificate.	
C) Student Pilot Ce	ertificate with an appropriat	e endorsement.
186.	PLT163	CFI
When operating VF A) 3 SM visibility ar	•	at are the visibility and cloud clearance requirements?
B) 3 SM visibility, 5	00 feet below, 1,000 feet a	above, and 2,000 feet horizontal distance from clouds.
C) 1 SM visibility, 5	00 feet below, 1,000 feet a	above, and 2,000 feet horizontal distance from clouds.
187.	PLT377	CFI
Regarding certificat	tes and documents, no per	rson may operate an aircraft unless it has within it an
A) Airworthiness Co	ertificate and minimum equ	uipment list (MEL).
B) Airworthiness Ce	ertificate, aircraft and engir	ne logbooks, and owner's handbook.
C) Airworthiness Co	ertificate, Registration Cer	tificate, and approved flight manual.
188.	PLT437	CFI
	being flown over water, ure to each occupant?	nder what circumstance must approved flotation gear
A) At night and bey	ond gliding distance from	shore.
B) Anytime the airc	raft is beyond power-off gl	iding distance from shore.
C) When operating	for hire beyond power-off	gliding distance from shore.

189.	PLT208	CFI
How long may a removed for ma	<u>-</u>	mergency locator transmitter has been initially
A) 90 days.		
B) 30 days.		
C) 7 days.		
190.	PLT161	CFI
What are the re	quirements, if any, to overfly Clas	s C airspace?
A) None, provid	ed the flight remains above the ai	rspace ceiling.
•	with automatic altitude reporting (10,000 feet MSL.	capability is required above the airspace ceiling
C) Two-way rad operating at all		olished with ATC and transponder must be
191.	PLT172	CFI
•	• •	request be submitted to the controlling ATC required altitude reporting transponder?
192.	PLT444	CFI
If an in-flight em	nergency requires immediate actio	n, a pilot in command may
A) deviate from	FAR's to the extent required to m	eet that emergency.
B) not deviate fr	rom FAR's unless permission is ol	otained from air traffic control.
•	FAR's to the extent required to m ministrator within 24 hours.	eet the emergency, but must submit a written
193.	PLT430	CFI
What is the min	imum altitude and flight visibility re	equired for acrobatic flight?
A) 1,500 feet A0	GL and 5 miles.	
B) 1,500 feet A0	GL and 3 miles.	
C) 3,000 feet A0	GL and 3 miles.	
194.	PLT374	CFI
Assuring compli	iance with airworthiness directives	s is the responsibility of the
A) FAA certifica	ted mechanic.	
B) pilot in comm	nand of the aircraft.	

C) owner or op-	erator of the aircraft.	
195.	PLT372	CFI
An aircraft's las will be due no la	·	ed on July 12, this year. The next annual inspection
A) July 13, nex	t year.	
B) July 31, nex	t year.	
C) 12 calendar	months after the date shown on	the Airworthiness Certificate.
196.	PLT425	CFI
A new maintenainclude the previous	_	craft engine rebuilt by the manufacturer must
A) operating ho	ours of the engine.	
B) annual inspe	ections performed on the engine.	
C) changes rec	uired by airworthiness directives.	
197.	PLT373	CFI
An aircraft's op	erating limitations may be found i	n the
A) FAA-approv	ed aircraft flight manual.	
B) owner's han	dbook published by the aircraft m	anufacturer.
C) aircraft flight thereof.	manual, approved manual mate	rial, markings, and placards, or any combination
198.	PLT395	CFI
The NTSB defi	nes a serious injury as any injury	which
A) causes seve	ere tendon damage.	
B) results in a s	simple fracture of the nose.	
C) involves first	degree burns over 5 percent of t	he body.
199.	PLT366	CFI
	nvolved in an accident which res field office shall be notified	ults in substantial damage to the aircraft, the
A) immediately		
B) within 7 days	S.	
C) within 10 da	ys.	
200.	PLT291	CFI
	mary of the location and movement lot should refer to	ent of fronts, pressure systems, and circulation

A) a Radar Sun	nmary Chart.	
B) an Aviation A	Area Forecast.	
C) a Significant	Weather Prognostic Chart.	
201.	PLT037	CFI
	lowing radar weather report:	3. .
•	·	20/115 C2425 MT 310 AT 162/110
	ur cells with tops at 10,000 feet, 1	
•	•	and 110 NM from the station (LIT).
•	·	ne intensity of thunderstorms remains unchanged.
c) The violenty		io interiority of trialing of the first and fi
202.	PLT070	CFI
(Refer to figure the Stability Ch	•	er conditions in the area indicated by arrow D on
A) Stable air; pı	redominately fair.	
B) High relative	humidity; showers and thundersto	orms.
C) Marginally u	nstable air; moderate turbulence a	and possible thunderstorms.
203.	PLT495	CFI
	associated with the cumulus stag	
A) Frequent ligh	· ·	
B) Continuous (•	
•	rain at the surface.	
-, - · gg · ·		
204.	PLT475	CFI
A squall line is	usually associated with a	
A) stationary fro	ont.	
B) fast-moving	cold front.	
C) fast-moving	warm front.	
205.	PLT495	CFI
Consider the fo correct.	llowing statements regarding hail	as an in-flight hazard and select those which are
1. There is a co within them.	errelation between the visual appe	arance of thunderstorms and the amount of hail
2 Large hail is r water content.	most commonly found in thunders	forms which have strong updrafts and large liquid

3 Hail may be found at any level within a thunderstorm but not in the clear air outside of the storm

cloud.

• •	d during the mature stage of the thunderstorm wn upward and outward from a storm cloud fo	•
A) Stratiform clouds, light B) Cumuliform clouds, sm	PLT511 sociated with an advancing warm front that has ining, steady precipitation. nooth air, steady precipitation. rbulent air, showery-type precipitation.	CFI s moist, unstable air?
207. What causes wind? A) Coriolis force. B) Pressure differences. C) The rotation of the Ear	PLT516	CFI
clouds will be A) cirrus type with no vert B) cumulonimbus with co	PLT192 of very stable, moist air being forced to ascentical development or turbulence. nsiderable vertical development and heavy ravertical development and turbulence	ins.
	PLT192 itude above the surface would you expect the re is 77 °F and the dewpoint is 53 °F?	CFI base of cumuliform clouds if
210. One condition necessary A) calm air. B) visible moisture. C) high relative humidity.	PLT226 for the formation of fog is	CFI

211.	PLT226	CFI
With respect to advection	fog, which statement is true?	
A) It forms almost exclusi	vely at night or near daybreak.	
•	e air is cooled adiabatically.	
•	y during day or night, and it is more persistent	than radiation for
o) it can appear caddom,	y daming day or might, and it is more perelection.	and radiation rog.
212.	PLT263	CFI
Which in-flight hazard is r	most commonly associated with warm fronts?	
A) Ground fog.		
B) Advection fog.		
C) Precipitation-induced f	og.	
, .	S	
213.	PLT226	CFI
Advection fog is formed a	as a result of	
A) moist air moving over	a colder surface.	
B) the addition of moisture	e to a mass of cold air as it moves over a body	y of water.
	acent air to the dewpoint temperature on clear	
		_
214.	PLT317	CFI
Maximum downdrafts in a	a microburst encounter may be as strong as	
A) 6,000 feet per minute.		
3) 4,500 feet per minute.		
C) 1,500 feet per minute.		
215.	PLT518	CFI
How long do the maximur	m intensity winds last in an individual microbu	rst?
A) 2 to 4 minutes.		
B) 5 to 10 minutes.		
C) 15 minutes.		
216.	PLT344	CFI
Which precipitation type ι	usually indicates freezing rain at higher altitude	es?
A) Snow.		
B) Hail.		
C) Ice pellets.		
217.	PLT512	CFI

Streamers of precip known as	pitation trailing beneath clouds but evaporation	ng before reaching the ground are
A) virga.		
B) sublimation.		
C) condensation tra	ails.	
218.	PLT041	CFI
An altimeter indicat	tes 1,850 feet MSL when set to 30.18. What	is the approximate pressure altitude?
A) 1,590 feet.		
B) 1,824 feet.		
C) 2,110 feet.		
219.	PLT173	CFI
From which measu A) Ambient lapse ra	rement of the atmosphere can stability be deate.	etermined?
B) Atmospheric pre	essure.	
C) Difference between	een standard temperature and surface temperature	erature.
220.	PLT301	CFI
The most frequent	type of ground- or surface-based temperatur	re inversion is that produced by
A) terrestrial radiati	on on a clear, relatively still night.	
B) warm air being li	ifted rapidly aloft in the vicinity of mountainou	us terrain.
C) the movement o	f colder air under warm air or the movement	of warm air over cold air.
221.	PLT492	CFI
Which is the primar	ry driving force of weather on the Earth?	
A) The Sun.		
B) Coriolis.		
C) Rotation of the E	Earth.	
222.	PLT203	CFI
In what part of the	atmosphere does most weather occur?	
A) Tropopause.		
B) Troposphere.		
C) Stratosphere.		
223.		PLT021 CFI
(Refer to figure 36.)) Determine the condition of the airplane:	

B) 162 pounds under allo	owable gross weight; CG is located within limit owable gross weight; CG is located within limit owable gross weight; CG is located aft of the a	s.	375 lb 245 lb 65 lb 70 gal
` .	PLT021 pounds of weight is located at point X and 10 ated at point Y to balance the plank?	CFI 0 pounds a	t point Z, how
B) 50 pounds. C) 300 pounds.			
225. (Refer to figure 34.) How fulcrum? A) 1 inch to the left. B) 1 inch to the right. C) 4.5 inches to the right.	PLT021 should the 500-pound weight be shifted to ba	CFI lance the p	lank on the
226. (Refer to figure 33.) How fulcrum? A) 2.5 inches to the left. B) 2 inches to the right. C) 2 inches to the left.	PLT021 should the 200-pound weight be shifted to ba	CFI lance the p	lank on the
A) It has no effect. B) As temperature decrea C) As temperature decrea	PLT253 ambient temperature have on propane tank plases, propane tank pressure decreases. ases, propane tank pressure increases. PLT180 ich sometimes occurs during a balloon launch on the envelope.	CFI	

B) Closing the maneuver	ing vent too rapidly.	
C) Excessive temperature	e within the envelope.	
•	·	
229.	PLT177	CFI
Which will improve the re	sponse time of a hot air balloon?	
A) Increased weight.		
B) Less-dense ambient a	ir.	
C) Increased fuel flow thr	ough burner.	
230.	PLT253	CFI
Why should methanol be	added to propane fuel?	
A) Helps detect leaks in t	he fuel system.	
B) Helps prevent moisture	e from forming in the fuel system.	
C) Increases pressure an	nd boiling temperature for operations in colder	climates.
231.	PLT254	CFI
Prior to balloon flight on a	a cold, winter day, it may be necessary to pref	neat propane tanks because
A) ice may have formed i	n the lines to the burners.	
B) the temperature of liqu	uid propane controls burner pressure during co	ombustion.
C) propane needs to be a	at a temperature which will allow it to go from a	a liquid to a gaseous state.
222	DI TOE4	CEL
232. Dana ana ila wasadiin a ball	PLT251	CFI
•	oon fuel system because it	
A) is slow to vaporize.		
B) provides natural press		
C) contains methanol for	clean burning and improved performance.	
233.	PLT251	CFI
What is the weight of pro		
A) 4.2 pounds per gallon.		
B) 6.0 pounds per gallon.		
C) 7.5 pounds per gallon.		
c) 7.5 podrids per gallori.	•	
234.	PLT254	CFI
The valve located on eac	th tank that indicates the tank is filled to 80 pe	rcent capacity is the
A) main tank valve.	·	• •
B) vapor-bleed valve.		
C) fuel pressure valve.		
, , , , , , , , , , , , , , , , , , , ,		

235.	PLT253	CFI
Burner efficiency of a habove MSL?	not air balloon decreases app	proximately what percent for each 1,000 feet
A) 4 percent.		
B) 8 percent.		
C) 15 percent.		
236.	PLT343	CFI
What is one procedure	e for relighting the burner whi	le in flight?
A) Open the blast valv	e full open and light the pilot	light.
B) Open another tank	valve, open the blast valve, a	and light the main jet using reduced flow.
C) Close the tank valve	es, vent the fuel lines, reoper	n the tank valves, and light the pilot light.
237.	PLT113	CFI
What is a potential haz	zard in a balloon during a clir	nb that exceeds maximum rate?
A) Envelope may colla	pse.	
B) Deflation port may b	pe forced open.	
C) Rapid flow of air ma	ay extinguish the burner and	pilot light.
238.	PLT177	CFI
In a balloon, best fuel	economy in level flight can b	e accomplished by
A) evenly-spaced, sho	rt blasts of heat.	
B) long blasts of heat,	spaced as necessary.	
C) noting the pyrometer	er and remaining at a constai	nt temperature.
239.	PLT208	CFI
If powerlines become a	a factor during a balloon fligh	it, a pilot should know that
A) it is safer to contact	the lines than chance ripping	g.
B) contact with powerli	ines creates no great hazard	for a balloon.
C) it is better to chance	e ripping at 25 feet above the	e ground than contacting powerlines.
240.	PLT184	CFI
•	n that it is necessary to deflat the deflation port be opened	te the envelope as rapidly as possible during a ?
A) Just prior to ground	contact.	
B) The instant the basi	ket contacts the surface.	
C) As the balloon skips	s off the surface the first time	and all ballast has been discharged.

241.	PL1184	CFI
Prior to a high-wind	d landing in a balloon, occup	pants should be briefed to
A) kneel on the floo	or, face aft, and hang on to	the basket.
B) crouch in basket	t, face direction of landing, l	hold on in two places, and stay in basket.
C) crouch on the flomade.	oor in the center of the bask	set and jump out as soon as initial ground contact is
242.	PLT373	CFI
What should a pilot	t do if a small hole is seen i	n the fabric of a balloon during inflation?
A) Continue the infl	lation and make a mental n	ote of the location of the hole for later repair.
B) Instruct a ground inflation.	d crew member to inspect the	he hole and, if under 5 inches in length, continue the
C) Consult the fligh for the balloon bein		e hole is within acceptable damage limits established
243.	PLT254	CFI
All fuel tanks shoul	d be fired during preflight to	determine
A) if there are any I		
B) burner pressure	and condition of the valves	; <u>.</u>
C) if the pilot light for	unctions properly on each t	ank.
244.	PLT183	CFI
		ascent to level flight be made?
	and add heat upon settling	-
•		e balloon approaches altitude.
		just before arriving at the desired altitude.
	pe by venting and add near	just before arriving at the desired attitude.
245.	PLT448	CFI
A student pilot may	not operate a balloon in in	itial solo flight unless that pilot has
A) received a minin	num of 5 hours' flight instru	ction in a balloon.
B) a valid Student F	Pilot Certificate and logbook	c endorsement by an authorized flight instructor.
C) made at least 10	D balloon flights under the s	upervision of an authorized flight instructor.
246.	PLT495	CFI
Select the true state	ement pertaining to the life	cycle of a thunderstorm.
A) The initial stage	of a thunderstorm is always	s indicated by the development of a nimbus cloud.
	•	indicates the mature stage of the thunderstorm.
		indicates the dissipating stage of the thunderstorm.

247.	PLT470	CFI		
Rotor blade flapping action	Rotor blade flapping action is			
A) an undesirable reaction	n to changes in airspeed and blade angle of a	ttack.		
B) an aerodynamic reaction	on to high speed flight and cannot be controlle	d by the pilot.		
C) a design feature permit for dissymmetry of lift.	ting continual changes in the rotor blade angl	e of attack, compensating		
248.	PLT470	CFI		
The combination of lift and	d centrifugal force produces			
A) coning.				
B) flapping.				
C) Coriolis effect.				
249.	PLT237	CFI		
Maximum gliding distance	of an aircraft is obtained when			
A) parasite drag is the lea	st.			
B) induced drag and paras	site drag are equal.			
C) induced drag equals th	e coefficient of lift.			
250.	PLT257	CFI		
When a slight upward or r	negative flap deflection is used, the result is			
A) increased drag.				
B) decreased drag.				
C) decreased lift.				
251.	PLT017	CFI		
(Refer to figure 55.) What	approximate lift/drag ratio will the glider attain	at 68 MPH in still air?		
A) 10.5:1.				
B) 21.7:1.				
C) 28.5:1.				
252.	PLT240	CFI		
	elow the propeller thrust line, which direction v	vill the application of power		
cause the nose to move?				
A) The nose will pitch up.				
B) The nose will pitch down.				
C) The nose will not move) .			

253.	PLT303	CFI	
The best lift/drag ratio of a	glider occurs when parasite drag is		
A) equal to total drag.			
B) equal to induced drag.			
C) less than induced drag.			
254.	PLT012	CFI	
(Refer to figure 38.) A glide	er is flying from A to C. With a norma minimum altitude AGL is needed at	al L/D ratio of 20:1 and a constar	
,	DI T470	CFI	
A) in pastures which are s B) uphill, if possible, regar	PLT170 anding, it is recommended that the landing, it is recommended that the land land cultivated. It is also the wind direction. It is the crops have not yet been harve	anding be accomplished	
256.	PLT304	CFI	
During an autolaunch, the	pitch angle of the glider should not e	exceed	
A) 10° at 50 feet, 20° at 10	00 feet, and 45° at 200 feet.		
B) 15° at 50 feet, 20° at 10	00 feet, and 40° at 200 feet.		
C) 15° at 50 feet, 30° at 10	00 feet, and 45° at 200 feet.		
257.		PLT012	CFI
GIVEN:			
Maximum auto winch tow	speed	69 MPH	
Surface wind		5 MPH	
Wind gradient		5 MPH	
What should the auto wind A) 44 MPH. B) 49 MPH. C) 59 MPH.	ch speed be when a glider reaches a	n altitude of 200 feet?	
258.	PLT304	CFI	
	ow is the airspeed of a glider increas		

A) Raise the nose.		
B) Lower the nose.		
C) Increase speed of veh	icle or winch.	
259.	PLT496	CFI
What would be the appro- knot develops in it?	ximate tensile strength of a rope with a 1,000	pound tensile strength if a
A) 500 pounds.		
B) 800 pounds.		
C) 1,000 pounds.		
260.	PLT304	CFI
A) Nose of the glider wou B) Tow ring may strike ar	ler pilot releases while in the low-tow position ald tend to pitch up after release. Indicate the glider after release. Into the towplane's wake turbulence.	during an aerotow?
261.	PLT474	CFI
What is the suggested sp A) Best glide speed. B) Minimum sink speed. C) Best lift/drag speed.	eed to fly when passing through lift with no in	tention to work the lift?
Of Dest invalue speed.		
262.	PLT257	CFI
use is the A) best glide speed.	headwind on a long glide back to the airport,	the recommended speed to
B) minimum sink speed.	us half the actimated windened at the alider's	a flight altituda
C) best ill/drag speed pit	us half the estimated windspeed at the glider's	s night attitude.
263.	PLT170	CFI
landing into the wind, whi	control is maintained during the turn to base a ich would most likely occur if a steep wind gra oot would be undershot or the glider would sta	adient existed?
•	approach would increase, causing the glider t	
C) The wingtip on the out	side of the turn would stall before the wingtip	on the inside of the turn.
264.		

If swirling dust, le recommended th		strong thermal on the final approach to a landing, it is
	ers and reduce the airspee	d.
	lers and increase the airspe	
•	lers and maintain a constar	
005	DI T404	OF.
265. The state of	PLT494	CFI
thermals weaken	_	thermals are strong and dumping the water when
A) decrease forw	ard speed.	
B) increase forward	ard speed.	
C) decrease the	rate of descent.	
266.	PLT474	CFI
With regard to tw	o or more gliders flying in t	he same thermal, which statement is true?
A) All turns shoul	d be to the right.	
B) Turns should b	be in the same direction as	the highest glider.
C) Turns should I	be made in the same direct	tion as the first glider to enter the thermal.
267.	PLT328	CFI
Which is true abo	out the effect on a glider's p	erformance by the addition of ballast or weight?
A) The glide ratio	at a given airspeed will inc	crease.
B) A higher airsp	eed is required to obtain th	e same glide ratio as when lightly loaded.
C) The heavier th	ne glider is loaded, the less	the glide ratio will be at all airspeeds.
268.	PLT153	CFI
Below pressure h	neight, each 5 °F of positive	superheat amounts to approximately
A) 1 percent of no	et lift.	
B) 1 percent of st		
C) 2 percent of g		
269.	PLT030	CFI
		being displaced and the weight of the lifting gas is
A) gross lift.	gg	acting anophere and are margined at the mining gard to
B) useful lift.		
C) design lift.		
270.	PLT153	CFI

During flight in an airship A) pressure height is rea B) buoyancy equals airs C) buoyancy is greater t	ship weight.	
271.	PLT153	CFI
A) equals horizontal equ B) equals the difference	e air when buoyant force uilibrium existing between propeller thrust an between airship weight and the weight of th ence between airship weight and the weight	e volume of air being displaced.
A) greater nose pressur B) lower pressure variat		CFI ce
273. What action is required during a weigh-off? A) Transfer air aft. B) Increase airspeed. C) Transfer air forward.	PLT153 to dynamically trim an airship that is in even	CFI static trim and equilibrium
274. Critical factors affecting A) lift and drag. B) static and dynamic tri C) temperature and atm		CFI airship are
A) available lift. B) static and/or trim con	PLT154 d weigh-off for an airship is to determine dition. to make an up-ship takeoff.	CFI
276.	PLT158	CFI

How does an airsh	nip pilot know when pressure	height has been reached?
A) Liquid in the ga	s and air manometers will ris	e above normal levels.
B) Liquid in the ga levels.	s manometer will rise and liq	uid in the air manometer(s) will fall below normal
C) Liquid in the gallevels.	s manometer will fall and liqu	uid in the air manometer(s) will rise above normal
277.	PLT157	CFI
Dampers should n system would	ormally be kept closed during	g a climb to altitude because any air blown into the
A) decrease the vo	olume of gas within the envel	ope.
B) increase the an	nount of air to be valved, resu	ulting in a slower rate of ascent.
C) increase the an	nount of gas to be valved, pre	eventing the airship from ascending too fast.
278.	PLT208	CFI
What action is mo	st appropriate when an envel	ope over-temperature condition occurs?
A) Land as soon a	s practicable.	
B) Descend and a	llow envelope to cool before	anding.
C) Throw all unne	cessary equipment overboard	d in order to lighten the load.
279.	PLT208	CFI
What is one indica	ation of a serious envelope rip	in an airship?
A) Drop in air pres	ssure.	
B) Increase in gas	pressure.	
C) Difficulty in con	trolling altitude.	
280.	PLT208	CFI
If all engine power	r is lost during flight, an airshi	p should be
A) brought to a co	ndition of equilibrium as soon	as possible and free-ballooned.
B) trimmed nose-hlanding site.	neavy to use the airship's neg	ative dynamic lift to fly the airship down to the
C) trimmed nose-lidescent to the land		ve dynamic lift to control the angle and rate of
281.	PLT304	CFI
	n airship with the ballonet air not be engaged with either af	valves in the automatic forward position, the aft tamper open because
A) ballonet over-in	flation and rupture could occ	ur.
B) the airship will e	enter an excessive nose-high	attitude.

C) envelope pressure will	increase, causing possible damage to the air	· lines.
282.	PLT221	CFI
A) Not using an up-ship to B) Maintaining 50 percent	is considered to be most hazardous for an air akeoff when the airship is more than 200 pour t of the maximum permissible positive angle of angle of inclination during a wheel takeoff afty.	nds heavy. of inclination.
283.	PLT125	CFI
Which action is necessary A) Valve gas from the env B) Take air into the aft ba C) Valve air from the forw	llonet.	iirship?
284.	PLT448	CFI
knowledge test? A) Any certificate or rating	n against a person whom the Administrator fire held by the person may be suspended or re-	voked.
	quired to wait 24 months before taking anothe equired to wait a maximum of 6 months before	-
285.	PLT125	CFI
During flight, advancing the A) increase airspeed. B) cause the aircraft to click C) cause the aircraft to increase aircraft aircraft to increase aircraft aircra		
206	PLT348	CFI
•	ngine that rotates clockwise in a powered para of the right and decreasing the length of the le of the left riser cables.	achute is counteracted by
287.	PLT480	CFI
▼	Ift to develop forces which restore it to its origon of steady flight, is known as	inal condition, when

=
=
=
=
=
oft are located
=
=
_

294.	PLT190	CFI
The first indication of ca	rburetor ice in an aircraft with a four-cy	cle engine and fixed-pitch propeller is
A) an increase in RPM.		
B) a decrease in RPM.		
C) a decrease in oil pres	ssure.	
295.	PLT343	CFI
Air cooled engines dissi	pate heat	
_	on the cylinder and head.	
B) by air flowing through	·	
	head temperature probe.	
296.	PLT342	CFI
	ed engine is normally circulated by	
A) capillary attraction.	,	
B) an electric pump.		
C) an engine driven pun	np.	
297.	PLT343	CFI
In order to improve engi	ne efficiency, two-cycle engine exhaus	
	e to stop the fuel mixture from exiting t	
•	from exiting the cylinder before cumbu	•
C) use a reed valve to s	top the fuel mixture from exiting the cy	rlinder.
298.	PLT343	CFI
2-cycle engine thrust an	d fuel efficiency can be greatly compro	omised when
, ,	installed that are not specifically tuned	
B) carbon deposits build	•	Ç
•	It o pressurize and provide adequate f	uel to the combustion chamber.
299.	PLT478	CFI
The purpose of a kill sw	itch is to	
A) shut off the fuel to the	e carburetor.	
B) ground the lead wire	to the ignition coil shuting down the po	owerplant.
	iminating current for the ignition syster	
300.	PLT478	CFI

A typical two-cycle en	gine ignition coil is powered by	
A) a battery.		
B) a battery or an alte	rnator.	
C) a magneto.		
301.	PLT324	CFI
Many 4-cycle engines	utilize what type of lubrication system	n?
A) Forced.	,	
B) Gravity.		
C) Fuel/oil mixture.		
302.	PLT251	CFI
Adding more oil to the	fuel than specified by the manufactu	rer of a 2-cycle engine will result in
A) increased engine p	·	, 3
	ouildup and engine fouling.	
•	ubrication and optimal performance.	
,	·	
303.	PLT343	CFI
Pilots should refrain fr	om revving an engine with a reductio	n drive because
A) the crankshaft cour	nterbalances may be dislodged and c	ause extreme engine vibration.
B) the propeller blade	tips may exceed their RPM limits.	
C) the torque exerted gear box to self-destru	<u> </u>	eration and deceleration can cause the
304.	PLT114	CFI
The center of gravity t	ube is	
A) lengthened for hea	vier pilots.	
B) shortened for lighte	er pilots.	
C) lenghtened for light	ter pilots.	
305.	PLT114	CFI
The fan guard surrour	nds the propeller and	
A) increases aerodyna	amic efficiency.	
B) reduces "P" factor.		
C) protects the parach	nute suspension lines from damage.	
306.	PLT114	CFI
Cross ports in the para	achute ribs aid in	
-		

A) weight reduction	on of the canopy.	
B) the pressurizat	ion of the neighboring cells.	
C) drying of the ca	anopy.	
307.	PLT271	CFI
Splicing severed s	suspension lines is	
A) permissible if u	ising the same size material as	s the original line.
B) a very dangero	ous practice.	
C) an acceptable	field repair.	
308.	PLT114	CFI
		Ci i
Tying a severed s	·	aarmiaaibla
	shape of the wing and is not p	
<i>,</i> .	f it is shortened no more than	six inches.
C) is an acceptab	іе пеіа гераіг.	
309.	PLT114	CFI
What gives your p	powered parachute wing/canop	by its airfoil shape?
A) The risers beca shape.	ause, by decreasing the length	of the right riser you will get the precise airfoil
B) The suspension	n lines as they are precisely m	easured and fitted to a specific location.
C) The air as it en	ters the cell openings on the le	eading edge of the airfoil.
310.	PLT114	CFI
•	e parachute`s protective polyu	•
		mum gross weight, and increased fuel consumption.
•		ım gross weight, and reduced fuel consumption.
C) increased take	off distances, increased maxin	num gross weight, and increased fuel consumption.
311.	PLT253	CFI
	ne fuel vent system should alw	
A) to ensure the v	•	
B) to ensure the v		
•	vent system pressure is in the	green range.
,		,
312.	PLT221	CFI
Flaring allows the	pilot to touchdown at a	
A) higher rate of s	speed and a slower rate of des	cent.

B) lower rate of speed	l and a higher rate of des	cent.
C) lower rate of speed	and a lower rate of desc	ent.
313.	PLT328	CFI
-	ortant to know that if item	ven in a typical aircraft owner's manual for computing s have been installed in the aircraft in addition to the
A) allowable useful loa	ad is decreased.	
B) allowable useful loa	ad remains unchanged.	
C) maximum allowable	e gross weight is increas	ed.
314.	PLT242	CFI
As a weight shift aircra	aft wing approaches a sta	all, the wing tips
A) decrease the wings	s angle of attack.	
B) act in much the sar	ne way as ailerons on a t	hree-axis aircraft.
C) increase the wings	angle of attack.	
315.	PLT242	CFI
During a wing stall, the	e wing tips of a weight sh	ift aircraft are
A) ineffective for stall i	•	
B) effective for stall re	•	
•	combined with maximur	n engine output.
316.	PLT114	CFI
The crosstube is posit	ioned by	
A) a quick release pin.	•	
B) self-locking bolts.		
,	attached to the rear of the	keel.
317.	PLT114	CFI
On some trikes, the ha		
A) a variable trim arra	•	pilot to adjust the aircraft center of gravity during rmance.
B) an adjustable trim a	•	he pilot to adjust the aircraft center of gravity during
C) an adjustable trim a wing's keel.	arrangement that allows t	he center of gravity to shift fore and aft along the
318.	PLT114	CFI

rne keer pocket s	s purpose is to	
A) act as a longitu	undinal stabilizer, keeping the wi	ng from wandering left and right.
	abilizer, keeping the wing from w	
•	tabilizer, keeping the wing from	
o, act as a yaw s	tabilizer, keeping the wing nom	variating for and right.
319.	PLT114	CFI
How does the wir	ng design feature "washout" affe	et the production of lift?
		main body of the wing is not producing lift.
		e lift when the wing tips are not producing lift.
•	•	of the wing, to the leading edge of the wing, as the
wing begins to sta		ine wing, to the leading edge of the wing, as the
g segme to etc		
320.	PLT114	CFI
The wing of a wei	ight shift aircraft twists so that the	e angle of attack
•		riable and can be adjusted by the pilot in flight to
optimize performa	• • • • • • • • • • • • • • • • • • • •	habio and ban bo adjusted by the phot in hight to
B) changes from tips.	a a low angle of attack at the cer	nter of the wing, to a high angle of attack at the
C) changes from	a high angle of attack at the cen	ter of the wing, to a low angle of attack at the tips.
321.	PLT235	CFI
Removing the rot	or force on a gyroplane can lead	to
A) a power push	over.	
B) increased roto	r RPM.	
, C) pilot induced o		
o, p		
322.	PLT470	CFI
		nt engages the clutch and prerotates the rotor to gaging the clutch, the gyroplane will turn
A) left because of	frotor torque.	
B) right because	of rotor torque.	
C) right because	of engine propeller torque.	
	DI 7.170	
323.	PLT470	CFI
•	uising flight at constant airspeed n other, are operating at	and altitude, the individual rotor blades, when
A) unequal airspe	eed, equal angles of attack, and	unequal lift moment.
B) unequal airspe	eed, unequal angles of attack, an	d equal lift moment.
C) constant airsp	eed, unequal angles of attack, a	nd unequal lift moment.

324.	PLT470	CFI
How does a negative	G maneuver affect a gyroplane's rotor RPM?	
A) Increases rapidly.		
B) Remains the same	e.	
C) Decreases rapidly		
c) Booloacco rapialy	•	
325.	PLT470	CFI
When is rotor downw	ash most prevalent in certain gyroplanes?	
A) During all surface	movement.	
B) Immediately prior	to touchdown after a steep approach.	
C) During a vertical to	akeoff when rotor blades are in a propeller state	
326.	PLT470	CFI
Rotor torque is a con	cern in gyroplanes only during	
A) prerotation or clute		
B) maneuvers requiri		
•	ance climbs and go-arounds requiring higher er	ngine RPM
o) maximum ponomi		.9
327.	PLT470	CFI
Rotor blade rotation of	during powered flight in a gyroplane is produced	by the
A) horizontal compon	nent of rotor lift.	
B) interaction betwee	en engine propeller thrust and rotor blade drag.	
•	power through the clutch to the rotor shaft.	
,		
328.	PLT244	CFI
Which may lead to a	power push-over in a gyroplane?	
A) Low speed.		
B) Rotor force is remo	oved.	
C) Decreasing power		
, 01		
329.	PLT095	CFI
Longitudinal and late	ral control of a gyroplane in flight are affected by	/
A) antitorque pedals.		
	rotation of the rotor in the direction that control i	s desired.
	of the rotor blades to the angle and direction th	
, ,		
330.	PLT470	CFI

	greatest tendency to roll during	
A) horizontal flight at high	speed.	
B) climbing flight in which	forward airspeed decreases.	
C) descending flight in wh	ich forward airspeed decreases.	
331.	PLT213	CFI
What should help prevent	aircraft induced oscillation on a gyroplane?	
A) Adding a horizontal sta	bilizer.	
B) Increasing cyclic control	ol sensitivity.	
C) Lowering the center of	gravity below the thrust line.	
332.	PLT244	CFI
Which maneuver would ca oushover?	ause the unloading the rotor system and resul	t in a possible power
A) Just prior to landing.		
B) During a steep descent	t.	
C) After a pushover from a	a steep climb.	
333.	PLT472	CFI
A high-frequency vibration	n in flight would most likely indicate potential tr	ouble with
A) the balance of the mair	n rotor blades.	
B) a piston engine malfun	ction.	
C) worn parts in the main	rotor system.	
334.	PLT260	CFI
_ow speed blade flap on a	a gyroplane is a result of	
A) taxiing too fast.		
B) rotor blade pitch set too	o high.	
C) the rotor blades being	too heavy.	
335.	PLT472	CFI
A one-per-revolution vibra	ation in a gyroplane indicates which condition?	
A) Rotor blades out of bal	ance.	
B) One rotor blade out of	track.	
C) Possible onset of retreat	ating blade stall.	
336.	PLT149	CFI
Which is true concerning t	taxi procedures in a gyroplane?	

A) Keeping the r	otor system level creates less lift a	nd more stability.
B) Cyclic stick sł	nould be positioned slightly aft of no	eutral when taxiing.
C) Rotor blades	should not be turning when taxiing	over a rough surface.
337.	PLT208	CFI
Which pilot actio	n will help reduce pilot induced osc	cillation in a gyroplane?
A) Avoid flight at	high speeds.	
B) Increase pow	er if nose pitches down.	
C) Prior to a clim	nb, increase pitch attitude before in	creasing power.
338.	PLT112	CFI
	gyroplane in crosswind conditions, xis be parallel to the runway.	proper technique requires that the
B) direction of m	otion and heading coincide with ru	nway direction.
C) lateral axis of	the gyroplane be parallel to the gy	roplane's direction of motion.
339.	PLT222	CFI
	ain level flight (laterally) as airspee ilot will have to increase	d increases on climbout after takeoff in a
A) rudder pressu	re to the left.	
B) cyclic pressur	e to the right.	
C) rudder and cy	clic pressure to the left.	
340.	PLT470	CFI
	•	ating blade stall situation, in order of occurrence? d a tendency for the aircraft to roll.
B) High-frequenc	cy vibration, pitchdown of the nose	, and a tendency for the aircraft to roll.
C) Slow pitchup	of the nose, high-frequency vibration	on, and a tendency for the aircraft to roll.
341.	PLT486	CFI
During a takeoff	in a crosswind, which describes pr	oper control technique?
A) Pedals contro	ol both heading and direction of mo	vement.
B) Heading is mawith pedals.	aintained with cyclic; direction of m	ovement (groundpath or track) is maintained
C) Heading is many with cyclic.	aintained with pedals; direction of r	novement (groundpath or track) is maintained
342.	PLT190	CFI
Which condition	is most favorable to the developme	ent of carburetor icing?

A) Any temperature be	elow freezing and a relative humidity of less that	n 50 percent.
B) Temperature betwe	en 32 and 50 °F and low humidity.	
C) Temperature betwe	en 20 and 70 °F and high humidity.	
240	DI T400	OF
343. Misish statement is too.	PLT482	CFI
	e about instructors' critiques?	a a a a m ta b la
•	ely on their personality to make a critique more	•
•	ritique should emphasize positive aspects of stu	•
o) Before students will	lingly accept their instructor's critique, they mus	t first accept the instructor.
344.	PLT482	CFI
A written test is said to	be comprehensive when it	
A) includes all levels of	f difficulty.	
3) samples liberally wh	natever is being measured.	
C) measures knowledg	ge of the same topic in many different ways.	
345.	PLT482	CFI
Which is the main disa	dvantage of supply-type test items?	
A) They cannot be gra		
B) They are readily an	·	
	upted to statistical analysis.	
346.	PLT482	CFI
A written test has valid	lity when it	
A) yields consistent res	sults.	
3) samples liberally wh	natever is being measured.	
C) measures what it is	supposed to measure.	
347.	PLT482	CFI
	ajor difficulties encountered in the construction of the statistical item analysis.	of multiple-choice test items?
3) Keeping all respons	ses approximately equal in length.	
C) Inventing distractors	s which will be attractive to students lacking kno	owledge or understanding.
348.	PLT482	CFI
n a written test, which responses? A) Essay.	type of selection-type test items reduces the pr	robability of guessing correct

B) Matching.		
C) Multiple-choice.		
o) maniple choice.		
349.	PLT482	CFI
When an instructor	critiques a student, it sho	ould always be
A) done in private.	·	
B) subjective rather	r than objective.	
C) conducted imme	ediately after the student's	s performance.
350.	PLT211	CFI
Practical tests for p	oilot certification are	
A) norm-referenced	d.	
B) criterion-referen	ced.	
C) evaluation-refer	enced.	
351.	PLT481	CFI
		s (PTS) is to ensure the certification of pilots at a high
	ce and proficiency, consis	· · · · ·
A) safety.	•	
B) the time available	le.	
C) their abilities.		
,		
352.	PLT482	CFI
During oral quizzing	g in a given lesson, effect	ive questions should
A) be brief and con	cise.	
B) provide answers	s that can be expressed in	a variety of ways.
C) divert the studer	nt's thoughts to subjects o	covered in previous lessons.
353.	PLT482	CFI
		nduct of a lesson, a question should
	fficulty for that stage of tra	·
,	nation of where, how, and	•
•	nt's thoughts to subjects o	•
o, arrent ine etade.	ne andagine to caspecte o	
354.	PLT487	CFI
Which method of p flight computer?	resentation is desirable fo	or teaching a skill such as ground school lesson on the
A) Lecture/applicat	ion.	

B) Presentation/pr	actice.	
C) Demonstration/	performance.	
355.	PLT204	CFI
To communicate e	effectively, instructors must	
A) recognize the le	evel of comprehension.	
B) provide an atmo	osphere which encourages ques	tioning.
C) reveal a positiv	e attitude while delivering their n	nessage.
356.	PLT204	CFI
By using abstraction	ons in the communication proces	ss, the communicator will
A) bring forth spec	cific items of experience in the m	inds of the receivers.
B) be using words	which refer to objects or ideas t	hat human beings can experience directly.
C) not evoke in the intends.	e listener's or reader's mind the	specific items of experience the communicator
357.	PLT204	CFI
The effectiveness	of communication between instr	ructor and student is measured by the
A) degree of dyna	mic, interrelated elements.	
B) similarity betwe	en the idea transmitted and the	idea received.
C) relationship bet	ween communicative and dynar	nic elements.
358.	PLT204	CFI
Probably the great	test single barrier to effective co	mmunication in the teaching process is a lack of
A) respect for the i		
•	mony between instructor and stu	
C) a common expe	erience level between instructor	and student.
359.	PLT419	CFI
When has instruct	ion taken place?	
A) When all the re	quired material has been preser	ited.
B) When a proced	ure has been explained, and the	e desired student response has occurred.
C) When the stude	ent hears what is presented.	
360.	PLT233	CFI
When a student us mechanism knowr A) flight.		e performance, it is an indication of the defense

B) aggression.C) rationalization.		
361.	PLT270	CFI
A) Social. B) Egoistic.	ent's human needs offer the grea	test challenge to an instructor?
C) Self-fulfillment.	•	
362.	PLT270	CFI
Before a student of A) Safety. B) Physical. C) Security.	can concentrate on learning, whic	th human needs must be satisfied?
363.	PLT231	CFI
	ss, normal individuals usually read	
	cellent morale followed by deep d	
		tically, within the limits of their experience and
C) inappropriately laughing or singin	-	on, painstaking self-control, and inappropriate
364.	PLT231	CFI
The instructor car	n counteract anxiety in a student b	ру
A) treating the stu	ident's fears as a normal reaction	•
B) discontinuing in	nstruction in tasks that cause anx	iety.
C) allowing the st	udent to decide when he/she is re	eady for a new maneuver to be introduced.
365.	PLT233	CFI
	splay the defense mechanism ca	lled aggression, they
	angry, upset, and childish.	, , , , , , , , , , , , , , , , , , ,
•	participate in class activities.	
	ify actions by asking numerous qu	uestions.
366.	PLT269	CFI
When a student a		es to participate in class activities, it usually is an

B) aggression.		
C) resignation.		
367.	PLT504	CFI
	statement concerning the use of	
•	aids ensure getting and holding	
•	aids should be designed to cov	• •
C) Instructional	aids should not be used simply	to cover a subject in less time.
368.	PLT230	CFI
Which statemer techniques?	nt is true regarding positive or n	egative approaches in aviation instructional
•	th normal abilities should not be cedures early in training.	affected by an instructor who emphasizes
	proach, to be effective, will poir sibilities are discussed.	nt out the pleasurable features of aviation before the
•	tion of emergency procedures to be neither discouraging r	pefore the student is acquainted with normal nor affect learning.
369.	PLT232	CFI
Faulty performa	nce due to student overconfide	nce should be corrected by
A) increasing th	e standard of performance for e	each lesson.
B) praising the s	student only when the performa	nce is perfect.
C) providing str	ong, negative evaluation at the	end of each lesson.
370.	PLT490	CFI
An instructor ca	n most effectively maintain a hi	gh level of student motivation by
A) making each	lesson a pleasurable experien	ce.
B) relaxing the s	standards of performance requi	red during the early phase of training.
C) continually clestablished.	hallenging the student to meet	the highest objectives of training that can be
371.	PLT229	CFI
True performan	ce as a professional is based o	n study and
A) attitude.		
B) perseverance	е.	
C) research.		
372.	PLT229	CFI

Which statement is true re	egarding true professionalism as an instructo	r?
A) Anything less than sind	cere performance destroys the effectiveness	of the professional instructor.
B) To achieve professional practices.	alism, actions and decisions must be limited	to standard patterns and
C) A single definition of proconsiderations which must	rofessionalism would encompass all of the quate to be present.	ualifications and
373.	PLT230	CFI
In evaluating student dem A) remain silent and obse	nonstrations of piloting ability, it is important ferve.	or the flight instructor to
B) keep the student inform		
C) explain errors in perfor	. •	
374.	PLT457	CFI
Before endorsing a stude consistent ability to perfor	nt for solo flight, the instructor should require m	the student to demonstrate
A) slow flight, stalls, emer	gency landings, takeoffs and landings, and g	go-arounds.
B) all of the fundamental i	maneuvers.	
C) all maneuvers specifie	d in the Student Pilot Guide.	
375.	PLT211	CFI
Evaluation of demonstrate	ed ability during flight instruction must be bas	sed upon
·	of performance, suitably modified to apply to	•
B) the progress of the stutraining.	dent, considering the time and experience at	tained since beginning
C) the instructor's background	ound and experience relating to student pilot	s at this stage of training.
376.	PLT481	CFI
• • •	f a practical test, the examiner simulates con nouncing 'simulated engine failure'. What lev	
377.	PLT308	CFI
Insights, as applied to lea	rning, involve a person's	
A) association of learning	with change.	
B) grouping of associated	perceptions into meaningful wholes.	
C) ability to recognize the	reason for learning a procedure.	

378.	PLT308	CFI
Individuals make more pr principle of	rogress learning if they have a clear objective.	This is one feature of the
A) primacy.		
B) readiness.		
C) willingness.		
-		
379.	PLT308	CFI
Which statement is true of	concerning motivations?	
A) Motivations must be ta	angible to be effective.	
B) Motivations may be ve	ery subtle and difficult to identify.	
C) Negative motivations	often are as effective as positive motivations.	
200	DI T007	OFI
380.	PLT307	CFI
Where is information for f	ruture use storea?	
A) Sensory register.		
B) Short-term memory.		
C) Long-term memory.		
381.	PLT308	CFI
The learning process may	y include some elements such as verbal, cond	ceptual, and
A) habitual.		
B) experiential.		
C) problem solving.		
	DI T. CO	0.51
382.	PLT490	CFI
•	ore effective way for an instructor to properly r	notivate students?
,	sonal relationships with students.	
·	ations by the promise or achievement of rewa	
C) Reinforce their self-co	nfidence by requiring no tasks beyond their al	oility to perform.
383.	PLT308	CFI
A change in behavior as	a result of experience can be defined as	
A) learning.		
B) knowledge.		
C) understanding.		

384.	PLT306	CFI
Responses that pro	oduce a pleasurable return are	called
A) reward.		
B) praise.		
C) positive feedbac	k.	
385.	PLT308	CFI
A learning plateau	may be defined as the	
A) point in the learr	ning curve at which skill profici	ency retrogresses.
B) normal leveling-	off of an individual's learning r	ate.
C) achievement of	the highest possible level of co	ompetence for a particular individual.
386.	PLT307	CFI
_	neory, some forgetting is due to subconscious. This is called	the practice of submerging an unpleasant
A) blanking.		
B) immersion.		
C) repression.		
387.	PLT307	CFI
Which memory sys	tem processes input from the	environment?
A) Working.		
B) Long-term.		
C) Sensory register	r.	
388.	PLT487	CFI
The best way to pre	epare a student to perform a ta	ask is to
A) explain the purp	ose of the task.	
B) provide a clear,	step-by-step example.	
C) give the student	an outline of the task.	
389.	PLT295	CFI
Which transfer of le		mance of a maneuver interferes with the learning
A) Adverse.		
B) Positive.		
C) Negative.		

390.	PLT308	CFI
Which factor affecting per	ception has a great influence on the total perc	eptual process?
A) Self-concept.		
B) Goals and values.		
C) Time and opportunity.		
391.	PLT306	CFI
What level of knowledge is listed in the owner's manual	s being tested if asked, 'What is the maneuve al?'	ring speed of the aircraft
A) Rote.		
B) Application.		
C) Understanding.		
392.	PLT308	CFI
A basic need that affects a	all of a person's perceptions is the need to	
A) maintain and enhance	the organized self.	
B) accomplish a higher lev	vel of satisfaction.	
C) avoid areas that pose a	a threat to success.	
393.	PLT308	CFI
What is the basis of all lea	arning?	
A) Perception.		
B) Motivation.		
C) Positive self-concept.		
394.	PLT308	CFI
Which principle of learning substitute?	g implies that a student will learn more from th	e real thing than from a
A) Principle of effect.		
B) Principle of primacy.		
C) Principle of intensity.		
395.	PLT308	CFI
An instructor may foster th	ne development of insights by	
A) helping the student acc	quire and maintain a favorable self-concept.	
B) pointing out the attracti	ve features of the activity to be learned.	
C) keeping the rate of lear	ning consistent so that it is predictable.	

396.	PLT308	CFI
The mental grouping of aff	filiated perceptions is called	
A) insights.		
B) association.		
C) conceptualization.		
397.	PLT308	CFI
Which domain of learning		CFI
A) Cognitive.	deals with knowledge:	
B) Affective.		
C) Psychomotor.		
O) i sycholilotor.		
398.	PLT228	CFI
To ensure proper habits a	nd correct techniques during training, an instr	uctor should
A) use the building block to	echnique of instruction.	
B) repeat subject matter th	ne student has already learned.	
C) introduce challenging n	naterial to continually motivate the student.	
399.	PLT308	CFI
	on the emotional reaction of the learner is the	
A) effect.		- pp
B) primacy.		
C) intensity.		
,		
400.	PLT228	CFI
Each lesson of a training s	syllabus includes	
A) attention, motivation, ar	nd overview.	
B) introduction, developme	ent, and conclusion.	
C) objective, content, and	completion standards.	
401.	PLT228	CFI
Which statement is true re	garding lesson plans?	
A) Lesson plans should no	ot be directed toward the course objective; onl	y to the lesson objective.
B) A well-thought out men well prepared.	tal outline of a lesson may be used any time a	as long as the instructor is
C) Lesson plans help instr	ructors keep a constant check on their own ac	tivity as well as that of their

students.

402.	PLT228	CFI
Every lesson, whe	n adequately developed, falls logica	ally into the four steps of the teaching process
A) preparation, intr	oduction, presentation, and review	and application.
B) preparation, pre	sentation, application, and review a	and evaluation.
C) preparation, intr	oduction, presentation, and review	and evaluation.
403.	PLT491	CFI
In planning any ins	tructional activity, the first consider	ation should be to
A) determine the o	verall objectives and standards.	
B) establish comm	on ground between the instructor a	nd student.
C) identify the bloc	ks of learning which make up the o	verall objective.
404.	PLT228	CFI
(Refer to figure 1.)	Section A is titled:	
A) Overview.		
B) Objective.		
C) Introduction.		
405.	PLT228	CFI
(Refer to figure 1.)	Section D is titled:	
A) Content.		
B) Equipment.		
C) Instructor's Acti	ons.	
406.	PLT228	CFI
A lesson plan, if co	nstructed properly, will provide an	outline for
A) proceeding from	the unknown to the known.	
B) the teaching pro	ocedure to be used in a single instru	ictional period.
C) establishing blo	cks of learning that become progre	ssively larger in scope.
407.	PLT295	CFI
		of instruction during a course of training?
	y necessary parts of the total object	-
,	m the completion of the final object	
•	ne attainment of the lesson's object	
408.	PLT482	CFI
	likely result in students becoming f	
	,	

A) Giving the stud	dents meaningless praise.	
,	ts their work is unsatisfacto	ry with no explanation.
,		g when the instructor is in doubt.
,		
409.	PLT419	CFI
Student confiden	ce tends to be destroyed if	instructors
A) bluff wheneve	r in doubt about some point	
B) continually ide	entify student errors and fail	ures.
C) direct and con	trol the student's actions ar	nd behavior.
410.	PLT488	CFI
is identified as	ed to an entire group to stin	nulate thought and response from each group member
A) Relay.		
B) Overhead.		
C) Rhetorical.		
411.	PLT488	CFI
Which question v torque?	vould be best as a leadoff q	uestion for a guided discussion on the subject of
A) Does torque a	ffect an airplane?	
B) How does tord	que affect an airplane?	
C) What effect do	oes torque have on an airpla	ane in a turn?
412.	PLT488	CFI
• •	students have adequately of the most valuable tools a	discussed the ideas presented during a guided n instructor can use is
A) a session of ve	erbal testing.	
B) a written test o	on the subject discussed.	
C) an interim sun	nmary of what the students	accomplished.
413.	PLT487	CFI
In the demonstra concurrently?	tion/performance method o	f instruction, which two separate actions are performed
A) Instructor expl	anation and demonstration	
B) Student perfor	mance and instructor supe	rvision.
C) Instructor expl	lanation and student demor	nstration.
414.	PLT487	CFI

What is the last A) Summary. B) Evaluation.	step in the demonstration/perfor	mance method?
C) Student perfo	ormance.	
415.	PLT505	CFI
Which statemen	t is true concerning computer-ba	sed training (CBT)?
A) CBT may be	used by the instructor as stand-a	alone training.
B) One of the m for them.	ajor advantages of CBT is that s	tudents can progress at a rate which is comfortable
C) The instructo	r need not be actively involved w	vith the students when using instructional aids.
416.	PLT488	CFI
The first step in	preparing a lecture is to	
A) research the	subject.	
B) develop the r	nain ideas or key points.	
C) establish the	objective and desired outcome.	
417.	PLT491	CFI
The proper sequ	uence for the subparts of an intro	duction is
A) attention, mo	tivation, and overview.	
B) attention, dev	elopment, and overview.	
C) overview, mo	tivation, and conclusion.	
418.	PLT491	CFI
The method of a unknown, is one		e simple to complex, past to present, and known to
A) creates stude	ent thought pattern departures.	
B) shows the re	lationships of the main points of	the lesson.
C) requires stud	ents to actively participate in the	lesson.
419.	PLT491	CFI
In developing a student	lesson, the instructor should orga	anize explanations and demonstrations to help the
A) achieve the c	lesired learning outcome.	
B) acquire a tho	rough understanding of the mate	erial presented.
C) acquire new	concepts, generally progressing	from the known to the unknown.
420.	PLT488	CFI

An instructor can inspire a A) questions. B) visual aids. C) encouragement.	active student participation during informal lect	tures through the use of
421.	PLT488	CFI
•	acteristic of group learning is that it	
,	tive participation of the student. e participation of the student.	
	tive participation of both the student and the ir	nstructor.
422.	PLT482	CFI
Which statement is true re	egarding student evaluation?	
·	luations can only be objective.	
·	ent's learning should be an integral part of eac	
C) If deficiencies or faults corrected immediately.	not associated with the present lesson are re-	vealed, they should be
423.	PLT211	CFI
Evaluation of student perf	ormance and accomplishment during a lessor	n should be based on
	stablished in the lesson plan.	
<i>,</i> .	tudent compared to an objective standard.	
C) each student's ability to	o make an objective evaluation of their own pr	ogress.
424.	PLT295	CFI
Students who grow impati	ient when learning the basic elements of a tas	k are those who
,	aged than the unaggressive students.	
B) should have the prelim each step.	inary training presented one step at a time wit	h clearly stated goals for
•	the next higher level of learning and not held ed before they proceed to the next level.	back by insisting that the
425.	PLT227	CFI
During integrated flight ins	struction, the instructor must be sure the stude	ent
A) develops the habit of lo	-	
•	rcraft for extended periods under IMC.	
C) can depend on the fligh	nt instruments when maneuvering by outside	reterences.
426.	PLT295	CFI

Students quickly become	apathetic when they		
A) realize material is being	g withheld by the instructor.		
B) understand the objective	es toward which they are working.		
C) recognize that the instr	ructor is not adequately prepared.		
427.	PLT295	CFI	
Which is one of the ways	in which anxiety will affect a student?		
A) Anxiety may limit the st	tudent's ability to learn from perceptions.		
B) Anxiety will speed up the instructor.	ne learning process for the student if properly	controlled and directed by	
C) Anxiety causes dispersinterfere with normal reactions	sal of the student's attention over such a wide tions.	range of matters as to	
428.	PLT227	CFI	
Integrated flight instruction	n has many benefits but, the main objective is	s to	
A) develop the student's a	ability to fly the aircraft during inadvertent IMC	· · · · · · · · · · · · · · · · · · ·	
B) ensure the student is n	ot overly dependent on instruments during V	FR flight.	
C) help the student develo	op habit patterns for observance of and relian	ce on flight instruments.	
429.	PLT295	CFI	
During training flights, an A) learn despite stressful	instructor should interject realistic distractions conditions.	s to determine if a student can	
,	l while his/her attention is diverted.		
C) perform maneuvers us	ing the integrated method of flight instruction		
430.	PLT407	CFI	
A flight review will consist	of		
A) a minimum of 1 hour gr	round training and 1 hour flight training.		
B) at least 1 hour of flight	time to include at least three takeoffs and lan	dings.	
C) three takeoffs and land demonstrate the appropria	lings and a review of those maneuvers neces ate pilot privileges.	sary for the pilot to	
431.	PLT419	CFI	
Who is responsible for ad flight?	ministering the required knowledge test to a s	student pilot prior to solo	
A) Any certificated flight in	estructor.		
B) Any certificated ground	l instructor.		
C) The student's authorized instructor.			

432.	PLT457	CFI
One requiremer endorsement	nt for a student pilot to be author	ized to make a solo cross-country flight is an
A) in the studen model of aircraf	•	s given the student cross-country instruction in the
•	t's logbook that the preflight plar ared to make the flight safely.	nning and preparation has been reviewed and the
•	ent Pilot Certificate stating the stuass, and type of aircraft involved	udent is competent to make cross-country flights in .
433.	PLT457	CFI
•	ircraft on a solo flight within Clas nowing that he/she has	ss B airspace, a student must have a logbook
A) received flight airspace.	nt instruction from any authorized	d flight instructor on operating within Class B
B) received grous is authorized.	und instruction on and flight instr	ruction in that specific airspace for which solo flight
•	eceding 90 days, been found to lee student's experience in that sp	be competent by any flight instructor having pecific airspace.
434.	PLT457	CFI
Prior to a first so	olo flight, the flight instructor is re	equired to endorse the student's
A) logbook.		
B) pilot certification	te.	
C) logbook and	pilot certificate.	
435.	PLT457	CFI
• •	ate of each student pilot endorse what period of time is this record	ment given shall be maintained by each flight required to be retained?
A) 1 year.		
B) 2 years.		
C) 3 years.		
436.	PLT502	CFI
_	steady red light directed at you at; airport unsafe, do not land.	from the control tower means
	other aircraft; continue circling.	
	ding; expect steady green light a	at the appropriate time.
437.	PLT081	CFI

` ,	t is the valid period for the TAF for KMEM?	
A) 1200Z to 1200Z.		
B) 1200Z to 1800Z.		
C) 1800Z to 1800Z.		
438.	PLT290	CFI
Which in-flight advisory	would contain information on severe icing?	
A) PIREP.		
B) SIGMET.		
C) CONVECTIVE SIGN	IET.	
439.	PLT290	CFI
What information would	be covered in an AIRMET?	
A) Severe turbulence.		
B) Extensive mountain of	obscurement.	
C) Hail of 3/4 inch or gre	eater diameter.	
440.	PLT291	CFI
(Refer to figure 6.) What portions after 2300Z?	t sky condition and visibility are forecast for u	pper Michigan in the eastern
A) Ceiling 1,000 feet over	ercast and 3 to 5 statute miles visibility.	
B) Ceiling 1,000 feet over	ercast and 3 to 5 nautical miles visibility.	
C) Ceiling 100 feet over	cast and 3 to 5 statute miles visibility.	
441.	PLT068	CFI
(Refer to figure 14.) How	w are Significant Weather Prognostic Charts I	pest used by a pilot?
A) For overall planning a	at all altitudes.	
B) For determining area	s to avoid (freezing levels and turbulence).	
C) For analyzing curren	t frontal activity and cloud coverage.	
442.	PLT059	CFI
Consider the following s	statements regarding an Aviation Routine We	ather Report (METAR).
1. A vertical visibility ent	try does not constitute a ceiling.	
2. Fog (FG) can be repo	orted only if the visibility is less than 5/8 mile.	
3. The ceiling layer will I	be designated by a 'C'.	
4. Mist (BR) can be repo	orted only if the visibility is 5/8 mile up to six r	niles.
5. Temperatures reporte	ed below zero will be prefixed with a '-'.	
6. There is no provision to report partial obscurations.		

Select the true statements A) 2, 4, and 6. B) 2, 3, and 5. C) 1, 2, 5, and 6.	S.	
443. (Refer to figure 3.) Which A) KDAL. B) KFTW. C) KTYR.	PLT059 station is reporting the wind as calm?	CFI
444. Vertical visibility is shown A) overcast. B) obscured. C) partially obscured.	PLT059 on METAR/TAF reports when the sky is	CFI
445. (Refer to figure 3.) The te A) 4 °C. B) 4 °F. C) 7 °C.	PLT059 mperature/dew point spread at KAUS is	CFI
446. GIVEN:	PLT059	CFI
ROUN 1513552 AUTO 22 The ASOS report indicate A) reporting a temperatur B) possibly in need of ma C) augmented with a wea	e of 45 °F. intenance.	/IK A02 \$.
(Refer to figure 4.) If the to the the base of the ceiling? A) 505 feet AGL. B) 1,295 feet AGL. C) 6,586 feet AGL.	PLT061 errain elevation is 1,295 feet MSL, what is the	CFI height above ground level

448.	PLT063	CFI	
(Refer to figure 13, area l	B.) What is the top for precipitation of the rada	r return?	
A) 24,000 feet AGL.			
B) 24,000 feet MSL.			
C) 2,400 feet MSL.			
449.	PLT066	CFI	
	t percent coverage of severe thunderstorms is orth-central United States?	s forecast to occur in the area	
A) 6 to 10.			
B) 10 to 50.			
C) 50 to 90.			
450.	PLT071	CFI	
	d pressure systems (as of chart time) is best d		
A) Surface Analysis Char	,	otominou by rotoming to a	
B) Radar Summary Char			
C) Weather Depiction Ch			
o, weather Depletion on			
451.	PLT075	CFI	
(Refer to figure 12.) Wha	t is the status of the front that extends from Ne	ebraska through the upper	
peninsula of Michigan?			
A) Stationary.			
B) Warm.			
C) Cold.			
452.	PLT075	CFI	
(Refer to figure 10.) On a	Weather Depiction Chart, what does this info	rmation mean?	
A) Visibility 5 miles, sky c			
B) Visibility 5 miles, haze	, overcast, ceiling 3,500 feet.		
	sky obscured, ceiling 5,000 feet.		
453.	PLT317	CFI	
What is the expected duration of an individual microburst?			
A) One microburst may c	continue for as long as an hour.		
B) Five minutes with max	kimum winds lasting approximately 2 to 4 minu	ites.	
C) Seldom longer than 15 minutes from the time the burst strikes the ground until dissipation.			

454.	PLT501	CFI	
When flying low over hilly terrain, ridges, or mountain ranges, the greatest potential danger from turbulent air currents will usually be encountered on the			
A) leeward side wher	n flying with the wind.		
B) leeward side wher	n flying into the wind.		
C) windward side who	en flying into the wind.		
455.	PLT495	CFI	
What are the minimu	m requirements for the f	formation of a thunderstorm?	
A) Sufficient moisture	e and a lifting action.		
B) Sufficient moisture	e, an unstable lapse rate	e, and lifting action.	
C) Towering cumulus	s clouds, sufficient moist	ure, and a frontal zone.	
456.	PLT518	CFI	
	d be expected if a stronզ wndrafts and an increas	g temperature inversion exists near the surface? e in OAT.	
B) A wind shear with	the possibility of a sudd	en loss of airspeed.	
C) An OAT increase	or decrease with a cons	tant wind condition.	
457.	PLT518	CFI	
Low-level wind shear	, which results in a sudd	den change of wind direction, may occur	
A) after a warm front	has passed.		
B) when surface wind	ds are light and variable.		
C) when there is a love	w-level temperature inve	ersion with strong winds above the inversion.	
458.	PLT511	CFI	
Cool air moving over	a warm surface is gene	rally characterized by	
A) instability and sho	wers.		
B) stability, fog, and o	drizzle.		
C) instability and con	tinuous precipitation.		
459.	PLT192	CFI	
What type weather ca	an one expect from mois	st, unstable air and very warm surface temperature?	
A) Fog and low stratu	ıs clouds.		
B) Continuous heavy	precipitation.		
C) Strong updrafts ar	nd cumulonimbus clouds	S.	
460.	PLT511	CFI	

Consider the follo	owing air mass characteristic	os:
1. Cumuliform cl	ouds.	
2. Stable lapse ra	ate.	
3. Unstable laps	e rate.	
4. Stratiform clou	uds and fog.	
5. Smooth air (al	pove the friction level) and po	oor visibility.
6. Turbulence up	to about 10,000 feet and go	ood visibility except in areas of precipitation.
A moist air mass above characteri		rface over which it passes, frequently has which of the
A) 1, 3, and 6.		
3) 3, 4, and 5.		
C) 2, 4, and 5.		
	-	o ==:
461.	PLT517	CFI
		long distance flight from east to west would most gh- and low-pressure systems by flying to the
A) north of a high	n and a low.	
3) north of a high	n and to the south of a low.	
C) south of a hig	h and to the north of a low.	
462.	PLT510	CFI
Which statement	t is true regarding high- or lo	w-pressure systems?
A) A high-pressu	ire area or ridge is an area o	f rising air.
B) A low-pressur	e area or trough is an area o	of rising air.
C) A high-pressu	ure area is a trough of desce	nding air.
463.	PLT192	CFI
oroblem if tempe	eratures are near or below fro	by rain, snow, or ice pellets posing a serious icing eezing?
A) Nimbostratus.		
B) Altostratus ler		
C) Altocumulus o	castellanus.	
464.	PLT492	CFI
Which is an oper spread?	rational consideration regard	ing actual air temperature and dewpoint temperature
A) The temperate	ure spread decreases as the	relative humidity decreases.
B) The temperat	ure spread decreases as the	relative humidity increases.

C) The temperature	e spread increases as the relative humic	dity increases.
465.	PLT206	CFI
temperature (OAT)	at a constant power setting and constar decreases, true airspeed will	nt indicated altitude. If the outside air
•	ue altitude will decrease.	
,	ue altitude will increase.	
C) increase, and tru	ue altitude will decrease.	
466.	PLT127	CFI
As density altitude wind condition?	increases, which will occur if a constant	indicated airspeed is maintained in a no
A) True airspeed in	creases; groundspeed decreases.	
B) True airspeed de	ecreases; groundspeed decreases.	
C) True airspeed in	ncreases; groundspeed increases.	
467.	PLT226	CFI
Radiation fog is mo	est likely to occur under what conditions	?
A) Warm, moist air condensed.	being forced upslope by light winds res	ulting in the air being cooled and
B) High humidity du topography.	uring the early evening, cool cloudless n	ight with light winds, and favorable
•	e/dewpoint spread, calm wind conditions avorable topography.	s, the presence of hydroscopic nuclei,
468.	PLT492	CFI
•		` • • • • • • • • • • • • • • • • • • •
A) the temperature B) the forecast area	PLT289 on Chart is useful to a pilot in determinin and dew point at selected stations. as of cloud cover and precipitation. ather conditions were reported above or	
470.	PLT313	CFI

What constitutes the part A) Weight of the balloor B) Total weight of passe C) Difference between	n and equipment. engers, cargo, and fue	I. imum certified gross weight.
471.	PLT179	CFI
The part of a balloon the	at bears the weight of	the balloon and its payload is the
A) load tapes.		
B) load cables.		
C) envelope material.		
472.	PLT511	CFI
Consider the following s	statements about mou	ntain waves:
1. Mountain waves alwa	ays develop in a series	on the upwind (windward) side of mountain ridges.
	• •	wnward immediately to the lee side of a ridge, before derable distance downstream.
3. If the air is humid and wave's crest.	d the wave is of large a	amplitude, lenticular (lens-shaped) clouds mark the
4. In a typical wave, the elevation.	greatest amplitude is	seldom more than 1,000 feet above the ridge crest
From the statements ab	oove, select those which	ch are true.
A) 2 and 3.		
B) 1, 2, and 3.		
C) 1, 3, and 4.		
473.	PLT511	CFI
Which statement is true	regarding the effect o	f fronts on soaring conditions?
A) A slow-moving front	provides the strongest	lift.
B) Excellent soaring con	nditions usually exist in	n the cold air ahead of a warm front.
C) Frequently the air be	ehind a cold front provi	des excellent soaring for several days.
474.	PLT474	CFI
The conditions most fav	vorable to wave format	ion over mountainous areas are a layer of
A) unstable air at moun ridge.	taintop altitude and a v	wind of at least 15 to 25 knots blowing across the
B) stable air at mountai	ntop altitude and a wir	nd of at least 15 to 25 knots blowing across the ridge.
C) moist, unstable air a ridge.	t mountaintop altitude	and a wind of less than 5 knots blowing across the

475.	PLT501	CFI	
When soaring in the vicinity of mountain ranges, the greatest potential danger from vertical and rotor-type currents will usually be encountered on the			
A) leeward side when flyi	ng with the wind.		
B) leeward side when flying	ng into the wind.		
C) windward side when fl	ying into the wind.		
,	-		
476.	PLT501	CFI	
One of the most dangero	us features of mountain waves is the turbulen	t areas in and	
A) below rotor clouds.			
B) above rotor clouds.			
C) below lenticular clouds	S.		
477.	PLT510	CFI	
Which is true regarding th	ne development of convective circulation?		
A) Cool air must sink to fo	orce the warm air upward.		
B) Warm air is less dense	e and rises on its own accord.		
C) Cool air surrounding c	onvective circulation sinks at a greater rate the	an the warmer air rises	
(within the thermal), thus	forcing the warmer air upward.		
470	DI T404	OFI	
478.	PLT494	CFI	
•	when soaring in a dust devil is to		
,	ortex because of extreme turbulence.		
	ne upwind side to prevent being blown into the		
C) avoid the clear area at	the outside edge of the dust because of seve	ere downdrafts.	
479.	PLT062	CFI	
(Refer to figure 2.) Using	the 0900 sounding, what minimum surface te	mperature is required for	
instability to occur and for	r good thermals to develop from the surface to	15,000 feet MSL?	
A) 58 °F.			
B) 80 °F.			
C) 90 °F.			
480.	PLT021	CFI	
	an advantage of the CG hook over the nose I		
A) A shallower climb can be used during launch.			
B) Glider is less likely to pitch up if the towline breaks.			
C) Likelihood of applying too much back-stick pressure is reduced.			
C) Likeliliood of applyllid	too maon baok bliok probbaro ib roadood.		

481.	PLT160	CFI	
	an airship is at pressure height and superhined by valving	eat increases, constant pressure must be	
A) gas	from the envelope.		
B) air f	rom the envelope.		
C) air f	rom the ballonets.		
482.	PLT190	CFI	
Carbui	etor ice can form		
A) only	at temperatures near freezing and the hur	nidity near the saturation point.	
B) when the outside air temperature is as high as 100 degrees F and the humidity is as low as 50%.			
C) at any temperature or humidity level.			
400	DI TOO4		
483.	PLT221	CFI	
_	during a landing		
A) dec	eases the powered parachute`s speed due	e to increased drag.	
B) increases the powered parachute's speed due to reduced drag.			
C) dec	reases the powered parachute's drag due	to increased speed.	