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Bank: (Instructor / Examiner)

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. PLT246

CFI

During a steady climb, the angle of climb depends on

- A) excess thrust.
- B) power available.
- C) thrust required.

3. PLT245

CFI

Which statement is true concerning the aerodynamic conditions which occur during a spin entry?

- A) After a full stall, both wings remain in a stalled condition throughout the rotation.
- B) After a partial stall, the wing that drops remains in a stalled condition while the rising wing regains and continues to produce lift, causing the rotation.
- C) After a full stall, the wing that drops continues in a stalled condition while the rising wing regains and continues to produce some lift, causing the rotation.

4. PLT168

CFI

Which statement is true relating to the factors which produce stalls?

- A) The critical angle of attack is a function of the degree of bank.
- B) The stalling angle of attack depends upon the speed of the airflow over the wings.
- C) The stalling angle of attack is independent of the speed of airflow over the wings.

5. PLT240

CFI

If the CG of an aircraft is moved from the aft limit to beyond the forward limit, how will it affect the cruising and stalling speed?

A) Increase be	oth the cruising speed and stalling speed.	
B) Decrease b	ooth the cruising speed and stalling speed.	
C) Decrease t	the cruising speed and increase the stalling speed.	
2	DI T400	OFI
6.	PLT480	CFI
	s nose initially tends to return to its original position a ard and released, the aircraft displays	iter the elevator control is
A) positive sta	atic stability.	
B) neutral dyr	namic stability.	
C) negative d	ynamic stability.	
7.	PLT240	CFI
As the CG loc	cation is changed, recovery from a stall becomes pro-	gressively
A) less difficul	It as the CG moves rearward.	
3) more diffici	ult as the CG moves rearward.	
C) more diffic	ult as the CG moves either forward or rearward.	
0	PLT240	CFI
3. Mhatia ahara		
	cteristic of the indicated airspeed if the CG is at the r power and altitude are maintained?	nost forward allowable position
A) There is no	relationship between CG location and indicated airs	speed.
B) Indicated a cosition.	irspeed will be less than it would be with the CG in the	ne most rearward allowable
C) Indicated a cosition.	airspeed will be greater than it would be with the CG	n the most rearward allowable
9.	PLT480	CFI
	dency of an aircraft to develop forces that further remain disturbed from a condition of steady flight, is known	
A) negative st	atic stability.	
3) dynamic in	stability.	
C) positive sta	atic stability.	
10.	PLT245	CFI
What is the ef	fect of center of gravity on the spin characteristics of	an aircraft?
A) A flat spin	may develop if the CG is too far aft.	
B) If the CG is	s too far forward, spin entry will be difficult.	
C) If the CG is	s too far aft, spins can become high-speed spirals.	

11.	PLT240	CFI
An aircraft is lo	aded with the CG aft of the a	ft limit. What effect will this have on controllability?
A) Stall and spi	n recovery may be difficult or	impossible.
B) A stall will o	ccur at a lower airspeed, but	recovery will be easier because of reduced wing loading
C) A stall will o	ccur at a higher indicated airs	speed due to the greater downloading on the elevator.
12.	PLT245	CFI
Which characte	eristic of a spin is not a chara	cteristic of a steep spiral?
A) Stalled wing		
B) High rate of	rotation.	
C) Rapid loss c	of altitude.	
13.	PLT131	CFI
_		e ground at a slightly slower airspeed than that required
•	flight at higher altitudes. This	
A) interference	of the ground surface with th	e airflow patterns about the aircraft in flight.
B) a cushioning	geffect of the air as it is trapp	ed between the ground and the descending aircraft.
C) ground inter	ference with the static pressu	ure system which produces false indications on the
airspeed indica	tor.	
14.	PLT131	CFI
An airplane lea	ving ground effect will	
•	a decrease in thrust required.	
, .	a decrease in stability and a r	
•	ver angle of attack to attain th	
, .	· ·	
15.	PLT132	CFI
In a twin-engine VYSE will prod		service ceiling is the maximum density altitude at which
A) 50 feet per r	ninute rate of climb.	
B) 100 feet per	minute rate of climb.	
C) 500 feet per	minute rate of climb.	
16.	PLT223	CFI
When operating sufficient to ma		at VMC, the pilot should expect performance to be
A) heading.		
B) heading and	altitude.	
C) heading, alti	tude, and be able to climb at	50 feet per minute.

A) experience avioniB) probably experienceand avionics equipmentC) probably experience	PLT207 failure (battery and alternator) occurs during flightics equipment failure. Ince failure of the engine ignition system, fuel gaugent. Ince engine failure due to the loss of the engine-defithe radio equipment, lights, and all instruments	ges, aircraft lighting system,
A) The cockpit, as w B) The cockpit area	PLT126 true regarding preheating of an aircraft during colvell as the engine, should be preheated. should not be preheated with portable heaters. blown directly at the engine through the air intak	·
19.Which instrument woA) Heading indicatorB) Airspeed indicatorC) Pressure altimeter	r.	CFI ne airplane's vacuum system?
shows a speed less due to A) a low density altit B) a malfunction in the	PLT337 alls with flaps full down, the stall occurs and the perthan the minimum limit of the white arc on the include. The pitot-static system. The pitot-static system.	
A) may reduce the ra B) reduces cruise in	PLT223 ils on a twin-engine airplane, the resulting perfor ate of climb by 80 percent or more. dicated airspeed by 50 percent or more. 50 percent since 50 percent of the normally avail	
22.During which strokeA) Power.B) Intake.	PLT343 of a reciprocating engine is the gaseous mixture	CFI expanding within the cylinder?

C) Compression	on.	
23.	PLT347	CFI
A) left engine, B) right engine	because the right engine cere, because the left engine cer	ich rotate clockwise, the critical engine is the inter of thrust is closer to the centerline of the fuselage. Inter of thrust is closer to the centerline of the fuselage. Inter of thrust is farther away from the centerline of the
24.	PLT095	CFI
A propeller rot rotate the airc	•	n the rear, creates a spiraling slipstream that tends to
A) right around	d the vertical axis, and to the	left around the longitudinal axis.
•		ight around the longitudinal axis. eft around the longitudinal axis.
25.	PLT435	CFI
	perating practice, all inbound nonitor the appropriate facility	traffic to an airport without a control tower should y from a distance of
26.	PLT116	CFI
A) with operati B) where a Fli	Advisory service is usually aving control towers. The Service Station is located Class C airspace and within 1	I on the airport.
27.	PLT141	CFI
A) 3,000 feet o B) 1,000 feet o	ntinuous red lights in the runvol of runway remain. of runway remain. the runway remains.	vay centerline lighting indicates that
28.	PLT141	CFI
What is the pu A) Identifies a		sition markings on the taxiway?

C) Allows an aircra	ft permission onto the runway.	
29.	PLT141	CFI
What is the purpose	e of No Entry sign?	
A) Identifies paved	area where aircraft are prohibited from entering.	
B) Identifies area th	nat does not continue beyond intersection.	
C) Identifies the ex	it boundary for the runway protected area.	
30.	PLT141	CFI
What does a series	of arrows painted on the approach end of a runw	ay signify?
A) That area is rest	ricted solely to taxi operations.	
B) That portion of the	he runway is not suitable for landing.	
C) That portion of the	he runway is the designated touchdown zone.	
31.	PLT141	CFI
The numbers 8 and approximately	d 26 on the approach ends of the runway indicate	that the runway is orientated
A) 008° and 026° tr	rue.	
B) 080° and 260° tr	rue.	
C) 080° and 260° n	nagnetic.	
32.	PLT141	CFI
What does the outh	oound destination sign identify?	
A) Identifies entran	ce to the runway from a taxiway.	
B) Identifies direction	on to take-off runways.	
C) Identifies runway	y on which an aircraft is located.	
33.	PLT141	CFI
When exiting the ru	ınway, what is the purpose of the runway exit sigr	1?
A) Indicates direction	on to take-off runway.	
B) Indicates design	ation and direction of exit taxiway from runway.	
C) Indicates design	nation and direction of taxiway leading out of an in	tersection.
34.	PLT141	CFI
When approaching	taxiway holding lines from the side with the contin	nuous lines, the pilot
A) may continue ta	xiing.	
B) should not cross	the lines without ATC clearance.	
C) should continue	taxiing until all parts of the aircraft have crossed t	the lines.

35.	PLT141	CFI
When turning onto sign?	a taxiway from another taxiway, what is the purpo	se of the taxiway directional
A) Indicates direction	on to take-off runway.	
B) Indicates design	ation and direction of exit taxiway from runway.	
	ation and direction of taxiway leading out of an in	tersection.
,		
36.	PLT141	CFI
What is the purpose	e of the taxiway ending marker sign?	
A) Identifies area w	here aircraft are prohibited.	
B) Indicates taxiwa	y does not continue beyond intersection.	
C) Provides genera	Il taxiing direction to named taxiway.	
37.	PLT141	CFI
What is the purpose	e of the yellow demarcation bar marking?	
A) Delineates runwathe runway.	ay with a displaced threshold from a blast pad, sto	opway or taxiway that precedes
B) Delineates entra	nce to runway from a taxiway.	
C) Delineates begin approach side.	nning of runway available for landing when pavem	ent is aligned with runway on
38.	PLT141	CFI
• •	s the taxiway location sign serve?	
·	y on which an aircraft is located.	
B) Provides genera	I taxiing direction to named runway.	
C) Denotes entrand	ce to runway from a taxiway.	
39.	PLT141	CFI
What is the purpose	e of the runway/runway hold position sign?	
A) Denotes entrand	e to runway from a taxiway.	
B) Denotes area pr	otected for an aircraft approaching or departing a	runway.
C) Denotes intersed		
,		
40.	PLT370	CFI
	controller issues radar traffic information in relatio oller uses is the aircraft's	n to the 12-hour clock, the
A) true course.		
B) ground track.		

C) magnetic	c heading.	
41.	PLT170	CFI
Under norm touchdown,		ind landing on a runway requires that, at the moment of
A) direction	of motion of the aircraft and its	s longitudinal axis be parallel to the runway.
B) downwin	d wing be lowered sufficiently t	to eliminate the tendency for the aircraft to drift.
C) direction	of motion of the aircraft and its	s lateral axis be perpendicular to the runway.
42.	PLT244	CFI
•	aft controllability is experienced est probably due to	d during an emergency go-around with full flaps, the
A) excessive	e airspeed with full flaps extend	ded.
	•	with the airplane trimmed for a full-flap configuration. ull flaps to the point where the aircraft control is greatly
ппрапса.		
43.	PLT219	CFI
What may o	occur if the initial bank is too sh	allow when performing a chandelle?
A) Completi	ng the maneuver with excessive	ve airspeed.
B) Stalling the	he aircraft before reaching the	180° point.
C) Completi	ing the maneuver with too low	a pitch attitude.
44.	PLT219	CFI
When perfo	rming a lazy eight, when shoul	d the aircraft be at minimum airspeed?
A) 45° point	•	
B) 90° point		
C) 180° poir	nt.	
45.	PLT219	CFI
What would eight?	cause the 45° point to be read	ched before the maximum pitchup attitude during a lazy
A) Beginnin	g with too slow a rate of roll.	
B) Beginnin	g with too rapid a rate of roll.	
C) Allowing	the airspeed to remain too hig	h causing the rate of turn to increase.
46.	PLT219	CFI
Select the fo	our flight fundamentals involved	d in maneuvering an aircraft.
A) Aircraft p	ower, pitch, bank, and trim.	

B) Starting, taxiing, t	takeoff, and landing.	
C) Straight-and-leve	l flight, turns, climbs, and descents.	
47.	PLT219	CFI
What will cause the turn entry?	nose of an aircraft to move in the direction of the	turn before the bank starts in a
A) Rudder being app	olied too late.	
B) Rudder being app	olied too soon.	
C) Failure to apply b	eack elevator pressure.	
48.	PLT086	CFI
Which would likely re	esult in a slipping turn?	
A) Not holding botto	m rudder in a turn.	
B) Increasing the rat	te of turn without using rudder.	
C) Increasing the rat	te of turn without increasing bank.	
49.	PLT219	CFI
Two distinct flight sit establishment and m	tuations should be covered when teaching slow flinaintenance of	ght. These are the
A) airspeeds approp	riate for landing approaches, and flight at reduce	d airspeeds.
B) an airspeed which can be made from s	h gives a stall warning indication, and an airspeed talls.	d at which complete recovery
•	nich the airplane is operating on the back side of the elevator control can be held full-back with no fu	•
50.	PLT487	CFI
Which stall must be	performed during a flight instructor - airplane practice	ctical test?
A) Power-on or pow	er-off.	
B) Accelerated.		
C) Imminent.		
51.	PLT219	CFI
(Refer to figure 48.) 90°?	In flying the rectangular course, when would the	aircraft be turned less than
A) Corners 1 and 4.		
B) Corners 1 and 2.		
C) Corners 2 and 4.		
52.	PLT258	CFI

	If you instruct a student to practice turns around a steepest point, it would be best to start at which o	•
A) 3.		
B) 7.		
C) 3 or 7.		
53.	PLT258	CFI
(Refer to figure 49.)	The angle of bank will be most nearly equal in wh	nich positions?
A) 3 and 7.		
B) 1 and 5.		
C) 4 and 6.		
54.	PLT219	CFI
(Refer to figure 50.)	During S-turn practice, which positions require th	e steeper angle of bank?
A) 4 and 5.		
B) 3 and 4.		
C) 2 and 5.		
55.	PLT086	CFI
(Refer to figure 52.) shown in '2'. The pilo	While performing eights-on-pylons, the turn-and-sot must	slip indicator appears as
A) increase altitude	to obtain the correct pivotal altitude, and correct t	he skidding turn.
B) decrease altitude	to obtain the correct pivotal altitude, and correct	the slipping turn.
C) decrease the ban of turn is too small.	ik to hold the reference point on the pylon without	slipping, because the radius
56.	PLT477	CFI
The objective of a cr	oss-control stall demonstration is to	
A) emphasize the ha	azard of an excessive slip during a landing approa	ach.
B) teach the proper	recovery technique should this type of stall occur	during final approach.
C) show the effect o control when making	f improper control technique and emphasize the i g turns.	mportance of coordinated
57.	PLT245	CFI
If inadequate right ru	udder is used during a climbing right turn, what m	ay occur if the aircraft stalls?
A) A spin to the left.		
B) A tendency to yav	w to the right.	
C) A tendency to roll	I to the right.	

58.	PLT486	CFI
The indicated lift-o	off airspeed for short-field takeoffs in a particu	lar aircraft will normally be
A) the same as fo	r soft- or rough-field takeoffs.	
B) greater than fo	r soft- or rough-field takeoffs.	
C) greater under t	tailwind conditions than required under headw	ind conditions.
59.	PLT486	CFI
When explaining t state that	the techniques used for making short- and sof	t-field takeoffs, it would be correct to
A) during soft-field	d takeoffs, lift-off should be made as soon as բ	oossible.
B) during soft-field	d takeoffs, lift-off should be made only when b	est angle-of-climb speed is attained.
C) during short-fie attained.	eld takeoffs, lift-off should be attempted only a	fter best rate-of-climb speed is
60.	PLT096	CFI
During a climb to	18,000 feet, the percentage of oxygen in the a	atmosphere
A) increases.		
B) decreases.		
C) remains the sa	ime.	
61.	PLT329	CFI
What suggestion	could you make to students who are experien	cing motion sickness?
A) Recommend ta	aking medication to prevent motion sickness.	
B) Have the stude	ents lower their head, shut their eyes, and take	e deep breaths.
C) Tell the studen the aircraft.	ts to avoid unnecessary head movement and	to keep their eyes on a point outside
62.	PLT330	CFI
Hypoxia is the res	sult of	
A) excessive nitro	gen in the bloodstream.	
B) reduced barom	netric pressures at altitude.	
C) decreasing am	ount of oxygen as your altitude increases.	
63.	PLT194	CFI
What effect does	haze have on the ability to see traffic or terrain	n features during flight?
A) Haze causes th	ne eyes to focus at infinity.	
B) The eyes tend	to overwork in haze and do not detect relative	movement easily.
C) All traffic or ter	rain features appear to be farther away than the	neir actual distance.

64. **PLT012** CFI GIVEN: True course 258° 10° E Variation 142 kts Indicated airspeed +05 °C Ambient temperature Pressure altitude 6,500 ft 350° at 30 kts Forecast wind Under these conditions, the magnetic heading and groundspeed would be approximately A) 260° and 155 knots. B) 270° and 157 knots. C) 280° and 155 knots. 65. **PLT012** CFL How far will an aircraft travel in 2-1/2 minutes with a groundspeed of 98 knots? A) 2.45 NM. B) 3.35 NM. C) 4.08 NM. **PLT012** CFI 66. On a cross-country flight, point A is crossed at 1500 hours and the plan is to reach point B at 1530 hours. Use the following information to determine the indicated airspeed required to reach point B on schedule. Distance between A and B **70 NM** Forecast wind 310° at 15 kts Pressure altitude 8,000 ft -10 °C Ambient temperature 270° True course The required indicated airspeed would be approximately A) 126 knots. B) 137 knots. C) 152 knots. 67. **PLT198 CFI** When converting from true course to magnetic heading, a pilot should A) subtract easterly variation and right wind correction angle. B) add westerly variation and subtract left wind correction angle.

C) subtract westerly variation and add right wind correction angle.

68.	PLT012	CFI
(Refer to figure	e 40.) The line from point A to point B of the	wind triangle represents
A) true headin	g and airspeed.	
B) true course	and groundspeed.	
C) groundspee	ed and true heading.	
69.	PLT012	CFI
	ng of 135° results in a ground track of 130° and of 140 knots, the wind would be from	and a true airspeed of 135 knots results in
A) 019° and 12	2 knots.	
B) 200° and 13	3 knots.	
C) 246° and 1	3 knots.	
70.	PLT101	CFI
Which stateme	ent about longitude and latitude is true?	
A) Lines of Ion	ngitude are parallel to the Equator.	
B) Lines of Ion	ngitude cross the Equator at right angles.	
C) The 0° line	of latitude passes through Greenwich, Engl	and.
71.	PLT064	CFI
(Refer to figure	e 46.) What does the figure 24 (area 6) indic	cate?
A) Maximum e	elevation figure for that quadrangle.	
B) Minimum sa	afe altitude when approaching San Francisc	O.
C) Height abo	ve ground of the tallest obstruction for that o	quadrangle.
72.	PLT225	CFI
If an aircraft ha	as a transponder, encoding altimeter, and D light plan is	ME, the proper equipment suffix to be
A) A.		
B) R.		
C) U.		
73.	PLT078	CFI
Information co	oncerning parachute jumping sites may be fo	ound in the
A) NOTAM's.		
B) Airport/Fac	ility Directory.	
C) Graphic No	otices and Supplemental Data.	

74.		PLT012	CFI
GIVEN:			
Jsable fuel at takeo	ff	36 gal	
Fuel consumption ra	ate	12.4 gal/	hr
Constant groundspe	eed	140 kts	
Flight time since tak	eoff	48 min	
According to FAR P A) 294 NM.	art 91, how much farther can an airpland	e be flown	under day VFR?
3) 224 NM.			
C) 189 NM.			
75.	PLT014		CFI
off course are you?	rom the NDB transmitter and the ADF in	idicates 3°	off course, how many miles
A) 1.5.			
3) 3.			
C) 6.			
76.	PLT202		CFI
A) Slant-range dista	ommonly displayed by a DME indicator? Ince in statute miles.		
	nce in nautical miles.	oda Parad	al a sub a MODTAO
(C) The distance from	n the aircraft to a point at the same altitu	lae airecti	y above the VORTAC.
77.	PLT484		CFI
Which is the correct	symbol for the minimum steady flight sp	peed at wh	nich an airplane is controllable?
A) Vs.			
3) Vs1.			
C) Vso.			
78.	PLT405		CFI
3.5 hours of cross-c your student eligible	s preparing for a Private Pilot practical to ountry flight training including flights of 1 to take the practical test?		
A) No.			
3) Yes.			••
ک) Yes but, if test is	satisfactory, certificate will have an ICA	O limitatio	n on it.

79.	PLT407	CFI
Under FAR Part 61, much cross-country	a commercial pilot-airplane applicant is required experience?	to have a minimum of how
A) 30 hours.		
B) 40 hours.		
C) 50 hours.		
80.	PLT407	CFI
•	mmand of an airplane with retractable landing gean nolding a Private or Commercial Pilot Certificate is	•
A) complete a practi	cal test in such an airplane.	
B) have made at lea	st three takeoffs and landings in such an airplane	in the last 90 days.
C) receive ground a proficiency.	nd flight training in such an airplane, and obtain a	logbook endorsement of
81.	PLT407	CFI
Private or Commerc	mmand of an airplane that has more than 200 hor ial Pilot Certificate is required to	sepower, a person holding a
	plete a practical test in such an airplane.	
	nd flight training in an airplane that has more than	•
and model.	offs and landings with an authorized instructor in a	an airpiane of the same make
82.	PLT409	CFI
What flight time mus A) All flight time.	st be recorded by a pilot exercising the privileges	of a commercial certificate?
B) Only the flight tim	ne necessary to meet the recent flight experience	requirements.
C) All flight time flow	n for hire with passengers and/or cargo aboard the	ne aircraft.
83.	PLT407	CFI
A flight review will co	onsist of	
A) a minimum of 1 h	our ground training and 1 hour flight training.	
B) at least 1 hour of	flight time to include at least three takeoffs and la	ındings.
•	d landings and a review of those maneuvers neceptoropriate pilot privileges.	essary for the pilot to
84.	PLT457	CFI
To operate an aircra endorsement showir	ift on a solo flight within Class B airspace, a stude ng that he/she has	ent must have a logbook

A) received flight in airspace.	struction from any authorized flight instructor on o	pperating within Class B
B) received ground is authorized.	instruction on and flight instruction in that specific	c airspace for which solo flight
,	ding 90 days, been found to be competent by any udent's experience in that specific airspace.	flight instructor having
85.	PLT443	CFI
What recent flight e airplane?	xperience must be met before a commercial airpl	ane pilot may fly solo in an
•	nd three landings within the preceding 90 days in complished a flight review in any aircraft for which	•
C) Satisfactorily acc review must be in a	complished a flight review within the preceding 24 n airplane.	calendar months, but this
86.	PLT407	CFI
the commercial leve	olds a Commercial Pilot Certificate with ASEL rati el. On August 1, 2007, the applicant shows you a ay the applicant take the practical test?	
•	rivate pilot skill level.	
87.	PLT407	CFI
	ining is required for an unrestricted Private Pilot (
A) 3 hours to includ miles.	e 10 takeoffs and 10 landings and one cross-cou	ntry flight of over 100 nautical
B) 3 hours to includ	e five takeoffs and five landings (each landing fro	m a traffic pattern).
C) 1 hour to include	three takeoffs and three landings.	
88.	PLT163	CFI
When operating an required to be at lead A) 3 SM. B) 2 SM. C) 1 SM.	airplane within Class D airspace under special V ast	FR, the flight visibility is
89.	PLT448	CFI

•		east a	edures under a hood in VM	C
•	t Certificate with an airpla	ne rating.		
			current medical certificate. current medical certificate	
90.	PLT161		CFI	
When flying beneatl authorized is A) 156 knots. B) 200 knots. C) 250 knots.	h the lateral limits of Class	s B airspace, the maxim	um indicated airspeed	
91.	PLT052		CFI	
What is the correct of the correct of the FAA-approvers) Make all left turns	departure procedure at a lead departure procedure for s, except a 45° right turn of direction consistent with	or that airport.	J .	
92.	PLT161		CFI	
What minimum pilot	certificate will permit a pi	lot to enter all Class B a		
A) Private Pilot CertB) Commercial PilotC) Student Pilot Cert		e endorsement.		
B) Commercial Pilot	Certificate.	e endorsement.	CFI	
B) Commercial Pilot C) Student Pilot Cel 93.	t Certificate. It Certificate with an appropriat PLT290 Duld be covered in an AIR Se. ain obscurement.		CFI	
B) Commercial Pilot C) Student Pilot Cer 93. What information we A) Severe turbulence B) Extensive mount	t Certificate. It Certificate with an appropriat PLT290 Duld be covered in an AIR Se. ain obscurement.			:FI

C) Station 109.3.			
95.		PLT021	CFI
What is the maxin limit?	num weight that could be a	dded at Station 130.0 w	ithout exceeding the aft CG
Total weight		2,900 lb	
CG location		Station 115.0	
Aft CG limit		Station 116.0	
A) 14 pounds.			
B) 140 pounds.			
C) 207 pounds.			
96.		PLT021	CFI
How much weight aft CG limit?	t must be shifted from Station	on 150.0 to Station 30.0	to move the CG to exactly the
Total weight		7,500 lb	
CG location		Station 80.5	
Aft CG limit		Station 79.5	
A) 68.9 pounds.			
B) 65.8 pounds.			
C) 62.5 pounds.			
97.	PLT235		CFI
Adverse yaw duri	ng a turn entry is caused by	У	
A) increased indu	ced drag on the lowered wi	ing and decreased induc	ced drag on the raised wing.
B) decreased indu	uced drag on the lowered w	ring and increased induc	ced drag on the raised wing.
C) increased para	asite drag on the raised win	g and decreased parasi	te drag on the lowered wing.
98.	PLT168		CFI
The angle between	en the chord line of an airfo	il and the relative wind is	s known as the angle of
A) lift.			
B) attack.			
C) incidence.			
99.	PLT168		CFI
The angle of attac	ck of a wing directly control	s the	
A) angle of incide	nce of the wing.		
B) amount of airflo	ow above and below the wi	ng.	

C) distribution of	of positive and negative pressure	acting on the wing.
100.	PLT237	CFI
The resistance, wing is called A) form drag. B) profile drag. C) parasite drag.		ity of the air as it passes along the surface of a
101. The best lift/dra A) equal to tota B) equal to indu C) less than inc	uced drag.	CFI arasite drag is
A) Flying at too B) Raising the a	PLT168 ill result in a stall? low an airspeed. aircraft's nose too high. he critical angle of attack.	CFI
103.	PLT248	CFI
when rolling int A) The wing's a B) The wing be	o the turn? ingle of attack is greater as the ro ing raised is traveling faster throu	auses the lowered aileron to create more drag than ollout is started. Igh the air than the wing being lowered. Ough the air and producing more lift than the wing
A) lift/drag ratio B) lifting capaci		CFI ct the aircraft's
105. The capability of attitude, is A) response.	PLT244 of an aircraft to respond to a pilot	CFI s inputs, especially with regard to flightpath and

B) controllability.			
C) maneuverability.			
106.	PLT012	CFI	
•		With a normal L/D ratio of 20:1 and a co is needed at B to arrive over C at 800 for	
A) 3,520 feet.			
B) 4,320 feet.			
C) 6,080 feet.			
107.	PLT216	CFI	
The advantage of to	tal energy compensators is th	at this system	
A) adds the effect of	f stick thermals to the total end	ergy produced by thermals.	
B) reduces climb an	d dive errors on variometer in	dications caused by airspeed changes.	
C) compensates for	air pressure changes while cl	imbing or descending.	
108.	PLT170	CFI	
When making an off	f-field landing, it is recommend	ded that the landing be accomplished	
A) in pastures which	are seldom cultivated.		
B) uphill, if possible,	regardless of the wind directi	on.	
C) in cultivated field:	s where the crops have not ye	et been harvested.	
109.		PLT012	CFI
GIVEN:			
Maximum auto winc	h tow speed	69 MPH	
Surface wind		5 MPH	
Wind gradient		5 MPH	
What should the aut	o winch speed be when a glic	ler reaches an altitude of 200 feet?	
A) 44 MPH.			
B) 49 MPH.			
C) 59 MPH.			
110.	PLT304	CFI	
During a ground lau	nch, how is the airspeed of a	glider increased?	
A) Raise the nose.			
B) Lower the nose.			
C) Increase speed of	of vehicle or winch.		

111.	PLT496	CFI
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.		
112.	PLT304	CFI
What could result if a glid	er pilot releases while in the low-tow position	during an aerotow?
A) Nose of the glider wou	ld tend to pitch up after release.	
B) Tow ring may strike an	nd damage the glider after release.	
C) Glider may be forced in	nto the towplane's wake turbulence.	
113.	PLT474	CFI
What is the suggested sp	eed to fly when passing through lift with no in	tention to work the lift?
A) Best glide speed.		
B) Minimum sink speed.		
C) Best lift/drag speed.		
114.	PLT257	CFI
When flying into a strong use is the	headwind on a long glide back to the airport,	the recommended speed to
A) best glide speed.		
B) minimum sink speed.		
, -11		
•	us half the estimated windspeed at the glider's	flight altitude.
•	us half the estimated windspeed at the glider's	flight altitude.
C) best lift/drag speed plu 115. Unless adequate speed of	, ·	CFI nd the final approach for a
C) best lift/drag speed plu 115. Unless adequate speed of landing into the wind, whi	PLT170 control is maintained during the turn to base a	CFI nd the final approach for a dient existed?
C) best lift/drag speed plu 115. Unless adequate speed of landing into the wind, whi A) The desired landing sp	PLT170 control is maintained during the turn to base and ch would most likely occur if a steep wind gra	CFI nd the final approach for a dient existed? II.
C) best lift/drag speed plu 115. Unless adequate speed of landing into the wind, whi A) The desired landing sp B) The airspeed on final a landing spot.	PLT170 control is maintained during the turn to base and the control is maintained during the turn to base and the control is maintained during the turn to base and the would most likely occur if a steep wind graph of the glider would stated	CFI nd the final approach for a dient existed? II. o overshoot the desired
C) best lift/drag speed plu 115. Unless adequate speed of landing into the wind, whi A) The desired landing sp B) The airspeed on final a landing spot.	PLT170 control is maintained during the turn to base and ch would most likely occur if a steep wind graphot would be undershot or the glider would state approach would increase, causing the glider to	CFI nd the final approach for a dient existed? II. o overshoot the desired
C) best lift/drag speed plue. 115. Unless adequate speed of landing into the wind, whin A) The desired landing specific by the airspeed on final alanding spot. C) The wingtip on the out.	PLT170 control is maintained during the turn to base and ch would most likely occur if a steep wind graphot would be undershot or the glider would state approach would increase, causing the glider to side of the turn would stall before the wingtip PLT494 The debris indicate a strong thermal on the final and control in the side of the turn would stall before the wingtip plus indicate a strong thermal on the final and control in the side of the turn would stall before the wingtip plus indicate a strong thermal on the side of the turn would stall before the wingtip plus indicate a strong thermal on the side of the turn would stall before the wingtip plus indicate a strong thermal on the side of the turn would stall before the wingtip plus indicate a strong the side of the turn would stall before the wingtip plus indicate a strong the side of the turn would stall before the wingtip plus indicate a strong the side of the turn would stall before the wingtip plus indicate a strong the side of the side of the turn would stall before the wingtip plus indicate a strong the side of the side o	CFI and the final approach for a dient existed? II. b overshoot the desired on the inside of the turn. CFI

B) close the spo	ilers and increase the airspeed.	
C) open the spo	ilers and maintain a constant air	rspeed.
117.	PLT419	CFI
A flight instructo	r applicant must demonstrate sp	oins in an airplane or glider when
A) the practical	test for initial certification is bein	g given.
, •	d for deficiencies in instructional uring an initial test.	proficiency on stall awareness or spins
•	or glider to be used for the practi nitial practical test.	cal test is certificated for spins and the applicant is
118.	PLT411	CFI
initial Flight Insti A) Held a Flight	ructor Certificate rating? Instructor Certificate for 24 mon	tor meet in order to prepare a glider applicant for an this or given 200 hours of flight training. the and given a minimum of 80 hours of training.
C) Held a Flight glider training.	Instructor Certificate for at least	24 months and given a minimum of 80 hours of
119.	PLT407	CFI
A) holds a rating	ng a private pilot glider rating is e g for powered aircraft. certificate for any category.	exempt from taking the knowledge test if that person
C) has taken a k	knowledge test for any powered	rating within the preceding 24 months.
120.	PLT161	CFI
	E airspace in VFR conditions, wh AGL and at or above 10,000 fee	at in-flight visibility is required when flying more t MSL?
121.	PLT430	CFI
	imum altitude and flight visibility GL and 5 miles. GL and 3 miles.	
122.	PLT511	CFI

Which stateme	nt is true regarding the effect of fro	onts on soaring conditions?
A) A slow-mov	ing front provides the strongest lift.	
B) Excellent so	aring conditions usually exist in the	e cold air ahead of a warm front.
C) Frequently t	he air behind a cold front provides	excellent soaring for several days.
123.	PLT062	CFI
` •	,	at minimum surface temperature is required for op from the surface to 15,000 feet MSL?
B) 80 °F.		
C) 90 °F.		
124.	PLT328	CFI
	bout the effect on a glider's performation at a given airspeed will increase	mance by the addition of ballast or weight? e.
, 0	speed is required to obtain the san the glider is loaded, the less the g	ne glide ratio as when lightly loaded. glide ratio will be at all airspeeds.
125.	PLT021	CFI
	w, which is an advantage of the CC	S hook over the nose hook?
•	climb can be used during launch.	
•	s likely to pitch up if the towline bre	
C) Likelihood o	of applying too much back-stick pre	essure is reduced.
126.	PLT477	CFI
•	s a normal stalling speed of 60 kno nat maximum load factor will result	ots but is forced into an accelerated stall at twice from this maneuver?
B) 2 G's.		
C) 1 G.		
127.	PLT238	CFI
At a constant v ratio wing)	elocity in airflow, a high aspect rat	io wing will have (in comparison with a low aspect
A) increased d	rag, especially at a low angle of att	tack.
•	drag, especially at a high angle of a	
C) increased d	rag, especially at a high angle of a	ttack.
128.	PLT238	CFI

(Refer to figure 21.) W	Vhich aircraft has the highes	st aspect ratio?
A) 2.		
B) 3.		
C) 4.		
100	DI Too 4	051
129.	PLT234	CFI
	aircraft intersect at the	
A) center of gravity.		
B) center of pressure.		
C) midpoint of the me	an chord.	
130.	PLT238	CFI
Aspect ratio of a wing	is defined as the ratio of th	e
A) wingspan to the wi	ng root.	
B) wingspan to the me	ean chord.	
C) square of the chord		
,	• .	
131.	PLT480	CFI
If the aircraft's nose re released, the aircraft of		after the elevator control is pressed forward and
A) neutral static stabil	ity.	
B) negative static stat	oility.	
C) positive static stab	ility.	
	- 1 - 22	 :
132.	PLT046	CFI
	·	by point A, in steady flight, the aircraft will
A) have its maximum	G	
B) have its minimum I	•	
C) be developing its n	naximum coefficient of lift.	
133.	PLT237	CFI
	s in level flight, total drag of mum lift/drag speed becaus	an aircraft becomes greater than the total drag e of the
A) increase in induced	d drag.	
B) decrease in induce	ed drag.	
C) increase in parasite	e drag.	
134.	PLT346	CFI

` ,	e rolling into a right turn, if the inclinometer application on the aircraft as illustrated in	pears as illustrated in A, the
A) 2, and more left pedal	pressure is needed to center the ball.	
B) 2, and more right peda	I pressure is needed to center the ball.	
C) 4, and more right peda	I pressure is needed to center the ball.	
135.	PLT237	CFI
Why does increasing spee	ed also increase lift?	
A) The increased velocity	of the relative wind overcomes the increased	drag.
B) The increased impact of air being deflected dow	of the relative wind on an airfoil's lower surfac nward.	e creates a greater amount
•	of the air passing over an airfoil's upper surfact essure differential between the upper and low	•
136.	PLT477	CFI
An airplane would have a condition when the center	tendency to nose up and have an inherent te of pressure is	ndency to enter a stalled
A) below the center of gra	ıvity.	
B) aft of the center of grav	vity.	
C) forward of the center o	f gravity.	
137.	PLT025	CFI
Which statement relates to	o Bernoulli's principle?	
A) For every action there	is an equal and opposite reaction.	
B) An additional upward for	orce is generated as the lower surface of the	wing deflects air downward.
C) Air traveling faster ove surface.	r the curved upper surface of an airfoil causes	s lower pressure on the top
138.	PLT018	CFI
(Refer to figure 19.) At wh distance per foot of altitud A) 6°.	nich angle of attack does the airplane travel the lost?	e maximum horizontal
B) 12.3°.		
C) 20°.		
139.	PLT305	CFI
because it	ading edge of the wing enables an airplane to	land at a slower speed
A) changes the camber of	i trie wing.	

B) delays the stall to a lC) decelerates the uppe				
A) chord. B) relative wind.		developed perpendicular to	CFI the	
C) longitudinal axis of to the subsonic planfor the Subsonic planfor A) Tapered wing. B) Elliptical wing. C) Rectangular wing.	PLT214	est lift coefficient?	CFI	
142. The tendency of an aird disturbed from a condit A) stability. B) controllability. C) maneuverability.	•	ces which restore it to its ori	CFI ginal condition, when	
143. The purpose of aircraft A) increase lateral stab B) increase longitudina C) increase lift coefficie	ility. I stability.	le is to	CFI	
144. (Refer to figure 30.) De Landing Rwy Wind A) 10 knots. B) 15 knots. C) 17 knots.	termine the approx	PLT013 ximate crosswind componen 22 260° at 23 kts	t.	CFI
145. (Refer to figure 31.) Wh	nat is the total land	PLT008 ling distance over a 50-foot o	obstacle?	CFI

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.			
146.	PLT312		CFI
Which is the best technic	que for minimizing the wing-load fa	actor when fly	ving in severe turbulence?
A) Control airspeed with	power, maintain wings level, and	accept variat	ions of altitude.
B) Control airspeed as cl and altitude.	osely as possible with elevator an	nd power, and	d accept variations of bank
C) Set power and trim to and accept variations of	obtain an airspeed at or below maairspeed and altitude.	aneuvering s	peed, maintain wings level,
147.	PLT305		CFI
Which type of flap create	es the least change in pitching mo	ment?	
A) Split.			
B) Fowler.			
C) Slotted.			
148.	PLT215		CFI
In the Northern Hemisph	ere, a magnetic compass will norr	mally indicate	a turn toward the north if
A) a left turn is entered fr	om a west heading.		
B) an aircraft is decelera	ted while on an east or west head	ing.	
C) an aircraft is accelera	ted while on an east or west head	ing.	
149.	PLT215		CFI
right from a south headin	eation on the magnetic compass and in the Northern Hemisphere? ally indicate a turn to the left.	s you roll into	a standard rate turn to the
	cate a turn to the right, but at a fastain on south for a short time, ther		•
150.	PLT190		CFI
The low temperature that is normally the result of t	t causes carburetor ice in an engi he	ne equipped	with a float-type carburetor

A) compression of air at	t the carburetor venturi.	
B) freezing temperature	of the air entering the carburetor.	
C) vaporization of fuel a	and expansion of air in the carburetor.	
151.	PLT190	CFI
The presence of carbure applying carburetor hea	etor ice in an aircraft equipped with a fixed-pi	tch propeller can be verified by
A) a decrease in RPM a	and then a constant RPM indication.	
B) a decrease in RPM a	and then a gradual increase in RPM.	
C) an increase in RPM	and then a gradual decrease in RPM.	
152.	PLT191	CFI
The operating principle	of float-type carburetors is based on the	
A) measurement of the	fuel flow into the induction system.	
B) difference in air pres	sure at the venturi throat and the throttle valve	e.
C) increase in air veloci	ty in the throat of a venturi causing a decreas	e in air pressure.
153.	PLT253	CFI
Fuel injection systems,	compared to carburetor systems, are general	lly considered to be
A) just as susceptible to	impact icing.	
B) more susceptible to e	evaporative icing.	
C) less susceptible to ic	sing unless visible moisture is present.	
154.	PLT253	CFI
Which statement is true	regarding fouling of the spark plugs of an air	craft engine?
A) Spark plug fouling re	sults from operating with an excessively rich	mixture.
B) Carbon fouling of the cylinder head temperatu	e spark plugs is caused primarily by operating ures.	an engine at excessively high
	e combustion chamber of a cylinder causes o g and this fouls the plug.	il to form on the center
155.	PLT253	CFI
As flight altitude increas	ses, what will occur if no leaning is made with	the mixture control?
A) The volume of air en	tering the carburetor decreases and the amou	unt of fuel decreases.
B) The density of air ent	tering the carburetor decreases and the amou	unt of fuel increases.
C) The density of air en	tering the carburetor decreases and the amount	unt of fuel remains constant.
156.	PLT351	CFI
The reason for variation	ns in geometric pitch (twisting) along a propell	er blade is that it

B) permits a relatively con	f the blade near the hub to stall during cruising nstant angle of attack along its length when in	cruising flight.
(c) permits a relatively co	nstant angle of incidence along its length whe	n in cruising tiight.
157.	PLT351	CFI
Propeller slip is the difference	ence between the	
	ade angle of the propeller.	
, •	e effective pitch of the propeller.	
C) plane of rotation of the	e propeller and forward velocity of the aircraft.	
158.	PLT196	CFI
Absence of the sky condi	ition and visibility on an ATIS broadcast indica	ites that
A) weather conditions are	e at or above VFR minimums.	
B) the sky condition is cle	ear and visibility is unrestricted.	
C) the ceiling is at least 5	5,000 feet and visibility is 5 miles or more.	
159.	PLT146	CFI
(Refer to figure 54.) The	segmented circle indicates that the airport traf	fic pattern is
A) left-hand for Rwy 17 a	nd right-hand for Rwy 35.	
3) right-hand for Rwy 35	and right-hand for Rwy 9.	
C) left-hand for Rwy 35 a	and right-hand for Rwy 17.	
160.	PLT150	CFI
The recommended entry	position to an airport traffic pattern is	
A) 45° to the base leg jus	st below traffic pattern altitude.	
3) to enter 45° at the mid	lpoint of the downwind leg at traffic pattern alti	tude.
C) to cross directly over t	he airport at traffic pattern altitude and join the	e downwind leg.
161.	PLT509	CFI
During a takeoff made be wingtip vortices by	ehind a departing large jet airplane, the pilot ca	an minimize the hazard of
A) remaining below the je	et's flightpath until able to turn clear of its wake	€.
B) extending the takeoff r	roll and not rotating until well beyond the jet's	rotation point.
C) being airborne prior to	reaching the jet's flightpath until able to turn	clear of its wake.
162.	PLT393	CFI
Flight through a restricted	d area should not be accomplished unless the	pilot has
A) filed an IFR flight plan		

•	rization from the controlling agency. ssion from the commanding officer of the neare	est military base.
163.	PLT161	CFI
Within the contiguous U A) 14,500 feet MSL. B) 18,000 feet MSL.	Inited States, the floor of Class A airspace is	
C) 18,000 feet AGL.		
164.	PLT040	CFI
shelf areas?	ich altitude (box 1) is applicable to the vertical	extent of the surface and
A) 3,000 feet AGL.	oort	
B) 3,000 feet above airp C) 4,000 feet above airp		
165.	PLT040	CFI
	at is the radius of the shelf area (circle A)?	
A) 5 miles. B) 10 miles.		
C) 15 miles.		
166.	PLT161	CFI
Normally, the vertical lir the surface?	nits of Class D airspace extend up to and inclu	ding how many feet above
A) 2,500 feet.		
B) 3,000 feet.		
C) 4,000 feet.		
167.	PLT064	CFI
(Refer to figure 44.) Wh 1)?	ere does the floor of controlled airspace begin	over Saginaw Airport (area
A) Surface.		
B) 700 feet AGL.		
C) 4,000 feet MSL.		
168.	PLT161	CFI
With certain exceptions to, but does not include	, Class E airspace extends upward from either ,	700 feet or 1,200 feet AGL

A) 10,000 feet M	ISL.	
B) 14,500 feet M	ISL.	
C) 18,000 feet M	ISL.	
169.	PLT161	CFI
		rom a satellite airport without an operating control
tower, a pilot mu		on a satellite all port without an operating control
A) monitor ATC	until clear of the Class C airspa	ce.
B) contact ATC a	as soon as practicable after take	eoff.
C) secure prior a	approval from ATC before takeo	off at the airport.
170.	PLT393	CFI
When operating	VFR in a military operations are	ea (MOA), a pilot
A) must operate	only when military activity is no	t being conducted.
B) should exercis	se extreme caution when militar	ry activity is being conducted.
C) must obtain a	clearance from the controlling	agency prior to entering the MOA.
171.	PLT064	CFI
` •	45.) What are the requirements ternational Airport (area 3)?	for operating in the alert area (area 6) just west of
A) Contact with a	approach control on frequency	120.9 is required.
B) Prior permissi	ion must be obtained from the c	controlling agency.
C) There are no training.	requirements, but pilots should	be extremely cautious due to extensive student
172.	PLT103	CFI
Hazardous attitu hazardous attitud		e degree at some time. What are some of these
A) Poor risk man	nagement and lack of stress ma	nagement.
B) Antiauthority,	impulsivity, macho, resignation	, and invulnerability.
C) Poor situation	nal awareness, snap judgments	, and lack of a decision making process.
173.	PLT232	CFI
	ese dangerous tendencies or b	ngerous tendencies or behavior problems at some ehavior patterns which must be identified and
A) deficiencies ir	n instrument skills and knowled	ge of aircraft systems or limitations.
R) neer nressure	scud running loss of situation	nal awareness, and operating with inadequate fuel

reserves.

C) performance problems.	deficiencies due to stress fror	n human factors such as fatigue, illness, or en	notional
174.	PLT022	CFI	
	r fundamental risk elements i ny given aviation situation?	n the aeronautical decision making (ADM) pro	cess
A) Pilot, aircraft,	environment, and mission.		
B) Skill, stress, s	situational awareness, and air	craft.	
C) Situational aw	vareness, risk management, j	udgment, and skill.	
175.	PLT098	CFI	
	•	as not required a controlled ascent and will be s, the recommended waiting time is at least	flying
B) 12 hours.			
C) 24 hours.			
176.	PLT332	CFI	
Hyperventilation	results in		
A) a lack of carb	on dioxide in the body.		
B) breathing too	rapidly causing a lack of oxyg	gen.	
C) a need to incr	rease the flow of supplementa	ıl oxygen.	
177.	PLT331	CFI	
How can smokin	g affect a pilot?		
A) Can decrease	e night vision by up to 50 perc	ent.	
B) Reduces the	oxygen-carrying capability of	the blood.	
C) Creates addit	ional carbon dioxide gases in	the body which often leads to hyperventilation	٦.
178.		PLT012	CFI
GIVEN:			
Departure path		straight out	
Takeoff time		1030 DST	
Winds during clir	mb	180° at 30 kts	
True course duri	ng climb	160°	
Airport elevation		1,500 ft	
True airspeed		125 kts	
Rate of climb		500 ft/min	

What would be A) 20 NM and 1 B) 23 NM and 1 C) 25 NM and 1	1044 DST.	hing 8,500 feet MSL?	
179.	PLT015	CFI	
If fuel consump	otion is 15.3 gallons per hour and aircraft to travel 620 NM?	groundspeed is 167 knots, how muc	ch fuel is
180.	PLT012	CFI	
	iles remain to be flown, what app	int, the aircraft's position is located 1 proximate total correction should be r	
181.		PLT012	CFI
GIVEN:		•	
Usable fuel at ta	akeoff	40 gal	
Fuel consumpti	ion rate	12.2 gal/hr	
Constant groun	ndspeed	120 kts	
Flight time since	e takeoff	1 hr 30 min	
According to FAA) 216 NM. B) 156 NM. C) 121 NM.	AR Part 91, how much farther ca	n an airplane be flown under night V	FR?
182.	PLT091	CFI	
(Refer to figure		090°, which ADF indicator would sh	ow a magnetic
183.	PLT090	CFI	

(Refer to figure 43 A) 2. B) 3. C) 6.	.) Which RMI indicator sho	ws your position to be northwest of the station?
184.	PLT276	CFI
(Refer to figure 42 A) 2 only. B) 6 only. C) 5 and 8.	.) At which aircraft position	(s) would you receive OMNI indication V?
185.	PLT276	CFI
(Refer to figure 42 A) T and X. B) V and X. C) W and Z.	.) Which OMNI indications	would you receive for aircraft 5 and 7?
186.	PLT300	CFI
When using a VOndicate if no error A) 180° FROM. B) 180° TO. C) 360° TO.	-	a VOR receiver with an RMI, what should the RMI
187.	PLT014	CFI
	1137 and the 140° radial a	0° and a true airspeed of 130 knots, the 150° radial of a at 1145. The approximate time and distance to the
188.	PLT300	CFI
A particular VORT A) removal of the i B) removal of the v		outine maintenance. This is evidenced by
189.	PLT395	CFI

Which is a definition of th	e term 'crewmember'?	
A) A person assigned to p	perform duty in an aircraft during flight time.	
B) Any person assigned t	o duty in an aircraft during flight except a pilot	or flight engineer.
C) Only a pilot, flight engi	neer, or flight navigator assigned to duty in ar	aircraft during flight time.
190.	PLT432	CFI
Regulations concerning the	ne operational control of a flight refer to	
A) the specific duties of a	ny required crewmember.	
B) exercising the privilege	es of pilot in command of an aircraft.	
C) exercising authority ov	er initiating, conducting, or terminating a flight	i.
191.	PLT388	CFI
Information recorded duri carrying airplane	ng normal operation by a required cockpit voi	ce recorder in a passenger-
A) may be erased only or	nce each flight.	
B) may all be erased exce	ept the last 30 minutes.	
C) must be retained for 3	0 minutes after landing.	
192.	PLT405	CFI
A person whose Flight Ins	structor Certificate has been suspended may	not
A) give flight training, but	may apply for a rating to be added to that cer	tificate.
B) apply for any rating to	be added to that certificate during the period of	of suspension.
C) apply for any Flight Ins	structor Certificate for a period of 1 year after t	he date of the suspension.
193.	PLT457	CFI
What is the duration of a		CIT
	Student Filot Certificate?	
A) Indefinite.		
,	om the month in which it was issued.	
C) 24 calendar months fro	om the month in which it was issued.	
194.	PLT418	CFI
The holder of a Ground Ir	nstructor Certificate with an advanced rating is	authorized to provide
	an instrument rating knowledge test.	
•	flight review or instrument proficiency check.	
	onautical knowledge areas for any pilot certific	ate or rating.
195.	PLT482	CFI

What minimum documents rating?	ation is required to take an FAA knowledge to	est for any flight instructor
A) Proper identification.		
B) Proof of satisfactory co	mpletion of the appropriate ground training or	home study course.
C) Authorization from an Frecord.	FAA inspector who has verified and endorsed	the applicant's training
196.	PLT409	CFI
What instrument flight time pilots?	e may be logged by a second in command of	an aircraft requiring two
A) One-half the time the fl	ight is on an IFR flight plan.	
B) One-half the time the a	ircraft is in actual instrument conditions.	
C) All of the time the seco instruments.	nd in command is controlling the aircraft sole	ly by reference to flight
197.	PLT442	CFI
If recency of experience relatest time passengers ma	equirements for night flight are not met and of ay be carried is	ficial sunset is 1830, the
A) 1829.		
B) 1859.		
C) 1929.		
198.	PLT448	CFI
To be eligible for a Comm at least a valid	ercial Pilot Certificate, one of the requirement	ts is for the applicant to hold
A) First-Class Medical Ce	rtificate.	
B) Second-Class Medical	Certificate.	
C) Third-Class Medical Co	ertificate.	
199.	PLT457	CFI
	student pilot endorsement given shall be ma I of time is this record required to be retained	
B) 2 years.		
C) 3 years.		
200.	PLT418	CFI
An applicant has failed a k	knowledge test for the second time. With train tor, when may the applicant apply for a retest	ing and an endorsement

A) immediately.B) After 5 days.C) After 30 days.		
201. What action may be taken knowledge test?	PLT448 against a person whom the Administrator fine	CFI ds has cheated on a
B) That person will be req	held by the person may be suspended or revuired to wait 24 months before taking another quired to wait a maximum of 6 months before	knowledge test.
202.	PLT461	CFI
A) sunset to sunrise.	d to be displayed on all aircraft in flight from	
B) 1 hour before sunset toC) 30 minutes before suns	o 1 hour after sunrise. rise to 30 minutes after sunset.	
,		
-	PLT508 talled in an aircraft has not been tested, inspe pecified period, what is the limitation on its us .	
,	ere except in Class A and B airspace. If flight but not for IFR flight.	
204.	PLT445	CFI
Which preflight action is reA) Check weather reports		
B) Determine runway leng	th at airports of intended use.	
C) Determine alternatives	if the flight cannot be completed.	
205.	PLT384	CFI
Which statement is true re	egarding the use of seatbelts and shoulder har	rnesses?
A) Crewmembers must ke movement on the surface.	ep seatbelts and shoulder harnesses fastene	d at all times during
B) The pilot in command r fasten and unfasten seatb	must ensure that each person on board an airdelts.	craft is briefed on how to
C) Passengers must keep of shoulder harnesses is contained to the containe	seatbelts fastened at all times during movem optional.	ent on the surface but use

206.	PLT430	CFI			
To operate an aircraft	over any congested are	ea, a pilot should maintain an altitude of at least			
A) 500 feet above the	A) 500 feet above the highest obstacle within a horizontal radius of 1,000 feet.				
B) 1,000 feet above the	ne highest obstacle withi	n a horizontal radius of 2,000 feet.			
C) 2,000 feet above the	ne highest obstacle withi	n a horizontal radius of 1,000 feet.			
207.	PLT502	CFI			
While in flight, a stead	dy red light directed at yo	ou from the control tower means			
A) continue flight; airp	oort unsafe, do not land.				
B) give way to other a	aircraft; continue circling.				
C) return for landing;	expect steady green ligh	t at the appropriate time.			
208.	PLT413	CFI			
What is the minimum	fuel requirement for fligh	nt under VFR at night in an airplane? Enough to fly to			
•		after that for 20 minutes at normal cruise speed.			
•		after that for 30 minutes at normal cruise speed.			
C) the first point of int	ended landing and to fly	after that for 45 minutes at normal cruise speed.			
209.	PLT377	CFI			
	•	son may operate an aircraft unless it has within it an			
,	ificate and minimum equ	. , ,			
,		ne logbooks, and owner's handbook.			
C) Airworthiness Cert	ificate, Registration Cert	ificate, and approved flight manual.			
210.	PLT208	CFI			
How long may an airc removed for maintena		e emergency locator transmitter has been initially			
A) 90 days.					
B) 30 days.					
C) 7 days.					
211.	PLT438	CFI			
Which cabin pressure supplemental oxygen	-	operate an aircraft up to 30 minutes without			
A) 12,500 feet MSL.					
B) 12,600 feet MSL.					
C) 14,100 feet MSL.					

212.	PLT444	CFI
If an in-flight en	nergency requires immediate act	ion, a pilot in command may
_	FAR's to the extent required to r	•
•	rom FAR's unless permission is	-
C) deviate from	•	meet the emergency, but must submit a written
213.	PLT372	CFI
An aircraft's las will be due no la	•	ed on July 12, this year. The next annual inspection
A) July 13, next	t year.	
B) July 31, next	t year.	
C) 12 calendar	months after the date shown on	the Airworthiness Certificate.
214.	PLT425	CFI
A new maintenal include the previous		rcraft engine rebuilt by the manufacturer must
A) operating ho	ours of the engine.	
B) annual inspe	ections performed on the engine.	
C) changes req	uired by airworthiness directives	
215.	PLT373	CFI
An aircraft's ope	erating limitations may be found	in the
A) FAA-approve	ed aircraft flight manual.	
B) owner's han	dbook published by the aircraft m	nanufacturer.
C) aircraft flight thereof.	manual, approved manual mate	rial, markings, and placards, or any combination
216.	PLT405	CFI
The primary pu	rpose of a minimum equipment li	st (MEL) is to
A) provide a list	t of equipment that must be oper	ational at all times on the aircraft.
B) list the equip	oment that can be inoperative and	d still not affect the airworthiness of an aircraft.
		alled in all aircraft as required by airworthiness
217.	PLT395	CFI
The NTSB defir	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 deg	gree burns over 5 percent of the body.	
218.	PLT366	CFI
	lved in an accident which results in substantial da office shall be notified	amage to the aircraft, the
219. (Refer to figure 5.) \ A) 1200Z to 1200Z. B) 1200Z to 1800Z. C) 1800Z to 1800Z		CFI
220. Which in-flight advi: A) PIREP. B) SIGMET. C) CONVECTIVE S	PLT290 sory would contain information on severe icing?	CFI
221.	PLT291	CFI
portions after 23002 A) Ceiling 1,000 fee B) Ceiling 1,000 fee	What sky condition and visibility are forecast for uz? et overcast and 3 to 5 statute miles visibility. et overcast and 3 to 5 nautical miles visibility. overcast and 3 to 5 statute miles visibility.	upper Michigan in the eastern
222.	PLT290	CFI
To determine the fr A) an Area Forecas B) an AIRMET or S C) a Weather Depic	IGMET.	u should refer to
223.	PLT068	CFI
A) For overall planr	How are Significant Weather Prognostic Charts ning at all altitudes. areas to avoid (freezing levels and turbulence).	best used by a pilot?

C) For analyzing cu	rrent frontal activity and cloud coverage.	
224. (Refer to figure 3.) \(A) KDAL. B) KFTW. C) KTYR.	PLT059 Which station is reporting the wind as calm?	CFI
225.Vertical visibility is sA) overcast.B) obscured.C) partially obscure	PLT059 shown on METAR/TAF reports when the sky is d.	CFI
226. (Refer to figure 3.) ⁻ A) 4 °C. B) 4 °F. C) 7 °C.	PLT059 The temperature/dew point spread at KAUS is	CFI
The ASOS report in A) reporting a temp B) possibly in need		CFI RMK A02 \$.
228. (Refer to figure 13, A) 24,000 feet AGL B) 24,000 feet MSL C) 2,400 feet MSL.		CFI adar return?
	PLT066 What percent coverage of severe thunderstorm the north-central United States?	CFI s is forecast to occur in the area

B) 10 to 50.		
C) 50 to 90.		
230.	PLT071	CFI
The position of fronts and	pressure systems (as of chart time) is best de	
A) Surface Analysis Char		, 0
B) Radar Summary Chart		
C) Weather Depiction Cha	art.	
231.	PLT075	CFI
(Refer to figure 12.) What peninsula of Michigan? A) Stationary.	is the status of the front that extends from Ne	ebraska through the upper
B) Warm.		
C) Cold.		
232.	PLT289	CFI
A Weather Depiction Cha	rt is useful to a pilot in determining	
A) the temperature and de	ew point at selected stations.	
B) the forecast areas of c	loud cover and precipitation.	
C) areas where weather of	conditions were reported above or below VFR	minimums.
233.	PLT075	CFI
(Refer to figure 10.) On a A) Visibility 5 miles, sky o	Weather Depiction Chart, what does this infor	rmation mean?
	overcast, ceiling 3,500 feet.	
,	sky obscured, ceiling 5,000 feet.	
of visibility 5 to 5 filles, s	oky obscured, centrig 5,000 feet.	
234.	PLT317	CFI
What is the expected dura	ation of an individual microburst?	
A) One microburst may co	ontinue for as long as an hour.	
B) Five minutes with max	imum winds lasting approximately 2 to 4 minu	tes.
C) Seldom longer than 15	minutes from the time the burst strikes the gr	ound until dissipation.
235.	PLT501	CFI
, ,	terrain, ridges, or mountain ranges, the great usually be encountered on the ng with the wind.	est potential danger from

•	n flying into the wind. nen flying into the wind.	
A) The initial stage on B) The beginning of	rain at the Earth's surface in	CFI value of a thunderstorm. Indicated by the development of a nimbus cloud. Indicates the mature stage of the thunderstorm. Indicates the dissipating stage of the thunderstorm.
A) Sufficient moistur B) Sufficient moistur	PLT495 um requirements for the form e and a lifting action. e, an unstable lapse rate, a s clouds, sufficient moisture	nd lifting action.
238. What feature is asso A) Frequent lightning B) Continuous updra C) Beginning of rain	afts.	CFI ge of a thunderstorm?
239.	PLT495	CFI
Consider the following correct.	ng statements regarding hai	l as an in-flight hazard and select those which are
 There is a correla within them. 	tion between the visual app	earance of thunderstorms and the amount of hail
2 Large hail is most water content.	commonly found in thunder	storms which have strong updrafts and large liquid
3 Hail may be found cloud.	at any level within a thunde	rstorm but not in the clear air outside of the storm
4 Hail is usually prod	duced during the mature sta	ge of the thunderstorm's lifespan.
5 Hailstones may be	thrown upward and outwar	d from a storm cloud for several miles.
The true statements	are:	
A) 2, 4, and 5.		
B) 1, 2, and 3.		
C) 1, 2, 4, and 5.		
240.	PLT518	CFI
Low-level wind shea	r, which results in a sudden	change of wind direction, may occur

A) after a warm f	ront has passed.	
B) when surface	winds are light and variable.	
C) when there is	a low-level temperature invers	ion with strong winds above the inversion.
241.	PLT511	CFI
Cool air moving o	over a warm surface is general	ly characterized by
A) instability and	showers.	
B) stability, fog, a	and drizzle.	
C) instability and	continuous precipitation.	
242.	PLT192	CFI
What type weath	er can one expect from moist,	unstable air and very warm surface temperature?
A) Fog and low s	tratus clouds.	
B) Continuous he	eavy precipitation.	
C) Strong updraft	ts and cumulonimbus clouds.	
243.	PLT511	CFI
Consider the follo	owing air mass characteristics:	
1. Cumuliform clo	ouds.	
2. Stable lapse ra	ate.	
3. Unstable lapse	e rate.	
4. Stratiform clou	ds and fog.	
5. Smooth air (ab	pove the friction level) and poor	· visibility.
6. Turbulence up	to about 10,000 feet and good	l visibility except in areas of precipitation.
A moist air mass above characteris		ce over which it passes, frequently has which of the
A) 1, 3, and 6.		
B) 3, 4, and 5.		
C) 2, 4, and 5.		
244.	PLT517	CFI
likely find favorab A) north of a high B) north of a high	ple winds associated with high-	ng distance flight from east to west would most and low-pressure systems by flying to the
-, a mgi		
245.	PLT510	CFI

de regarding night of low-pr	essure systems:
ea or ridge is an area of risi	ng air.
ea or trough is an area of ris	ing air.
ea is a trough of descendin	g air.
PLT192	CFI
	would you expect the base of cumuliform clouds if point is 53 °F?
PLT192	CFI
<u> </u>	ain, snow, or ice pellets posing a serious icing ng?
lianus.	
PLT492	CFI
al consideration regarding a	actual air temperature and dewpoint temperature
pread decreases as the rela	tive humidity decreases.
pread decreases as the rela	tive humidity increases.
pread increases as the rela	tive humidity increases.
PLT206	CFI
a constant power setting ar ecreases, true airspeed will	nd constant indicated altitude. If the outside air
altitude will decrease.	
altitude will increase.	
altitude will decrease.	
PLT127	CFI
creases, which will occur if a	constant indicated airspeed is maintained in a no-
eases; groundspeed decrea	ses.
eases; groundspeed decre	ases.
eases; groundspeed increas	ses.
	ea or ridge is an area of rising a or trough is an area of rising a is a trough of descending PLT192 at altitude above the surface rature is 77 °F and the dewrest are near or below freezing area. It is a consideration regarding a pread decreases as the relatoread decreases as the relatoread increases as the relatoread increases as the relatoread increases as the relatoread aconstant power setting an ecreases, true airspeed will altitude will decrease. It is altitude will decrease.

251.	PLT226	CFI
Radiation fog is me	ost likely to occur under wha	t conditions?
A) Warm, moist air condensed.	r being forced upslope by lig	ht winds resulting in the air being cooled and
B) High humidity d topography.	uring the early evening, coo	I cloudless night with light winds, and favorable
•	re/dewpoint spread, calm wir favorable topography.	nd conditions, the presence of hydroscopic nuclei,
252.	PLT226	CFI
With respect to ad	vection fog, which statement	t is true?
A) It forms almost	exclusively at night or near of	daybreak.
B) It forms when u	nstable air is cooled adiabat	ically.
C) It can appear so	uddenly during day or night,	and it is more persistent than radiation fog.
253.	PLT226	CFI
Advection fog is fo	ormed as a result of	
A) moist air moving	g over a colder surface.	
B) the addition of r	noisture to a mass of cold ai	ir as it moves over a body of water.
C) the ground cool	ling adjacent air to the dewp	oint temperature on clear, calm nights.
254.	PLT512	CFI
Streamers of preci	pitation trailing beneath clou	ids but evaporating before reaching the ground are
A) virga.		
B) sublimation.		
C) condensation tr	ails.	
255.	PLT173	CFI
From which measu	urement of the atmosphere of	an stability be determined?
A) Ambient lapse r	rate.	
B) Atmospheric pro	essure.	
C) Difference betw	veen standard temperature a	and surface temperature.
256.	PLT492	CFI
•		of 700 feet and a standard (average) temperature
A) 6,700 feet MSL	what will be the approximate	HEEZHIY IEVEL!
A) 0,100 IEEL INIOL	•	

B) 3,700 feet MSL		
C) 2,700 feet MSL		
257.	PLT301	CFI
		e-based temperature inversion is that produced by
•	tion on a clear, relatively s	
•	•	-
	• •	cinity of mountainous terrain.
C) the movement (of colder air under warm a	air or the movement of warm air over cold air.
258.	PLT492	CFI
Which is the prima	ary driving force of weathe	r on the Earth?
A) The Sun.		
B) Coriolis.		
C) Rotation of the	Earth.	
259.	PLT021	CFI
(Refer to figure 34 fulcrum?	.) How should the 500-po	und weight be shifted to balance the plank on the
A) 1 inch to the lef	t.	
B) 1 inch to the rig	ht.	
C) 4.5 inches to th	e right.	
260.	PLT018	CFI
	.) What is the stall speed of speed is 70 knots?	of an airplane under a load factor of 4 if the
A) 91 knots.	·	
B) 132 knots.		
C) 140 knots.		
261.	PLT074	CFI
		4 at 140 knots would cause the airplane to
A) stall.	., r poolitio load laotol ol	Tat Tre miete weard educe the ampiane to
B) break apart.		
•	structural damage.	
o, be subjected to	Structural damage.	
262.	PLT242	CFI
An aircraft wing is	designed to produce lift re	esulting from
A) negative air pre surface.	ssure below the wing's su	urface and positive air pressure above the wing's

B) positive air pressi surface.	ure below the wing's surface and	I negative air pre	essure above the w	ing's
C) a larger center of wing's surface.	pressure above the wing's surfa	ce and a lower o	center of pressure t	oelow the
263.	PLT240		CFI	
If an increase in pow	ver tends to make the nose of an	airplane rise, th	is is the result of th	ne
•	g below the center of gravity.	·		
B) center of lift being	g ahead of the center of gravity.			
C) center of lift and	center of gravity being collocated	I .		
264.	PLT244		CFI	
Which aircraft chara	cteristics contribute to spiral inst	ability?		
A) Weak static direc	tional stability and weak dihedra	l effect.		
B) Strong static direct	ctional stability and weak dihedra	al effect.		
C) Weak static direc	tional stability and strong dihedra	al effect.		
265.	PLT018		CFI	
(Refer to figure 25.) flaps up?	What would be the indicated sta	ll speed in a 60°	banked turn with the	he gear and
A) 110 KIAS.				
B) 117 KIAS.				
C) 121 KIAS.				
266.		PLT006		CFI
(Refer to figure 29.)	What is the approximate glide di	stance?		
Height above terrain	1	10,500 ft		
Tailwind		20 kts		
A) 24 miles.				
B) 26 miles.				
C) 28 miles.				
267.	PLT004		CFI	
	What indicated airspeed at 3,000	0 feet would resu	ult in the greatest ir	ncrease in
altitude for a given d	listance?			
A) 94 KIAS.				
B) 113 KIAS.				
C) 115 KIAS.				

268.			PLT012	CFI
(Refer to figure 26.) D	otorming the takeoff of	distance require		
Temperature	eterrime the takeon t	distance require	23 °C	obstacie.
Pressure altitude			3,000 ft	
Weight			2,400 lb	
Headwind			15 kts	
A) 653 feet.			13 KtS	
B) 718 feet.				
C) 754 feet.				
<i>O) 134</i> 166t.				
269.		PLT005		CFI
(Refer to figure 24.) De	etermine the density a	altitude.		
Airport elevation	·	3,795 ft		
OAT		24 °C		
Altimeter setting		29.70 inches	s Hg	
A) 5,900 feet.			-	
B) 5,700 feet.				
C) 4,000 feet.				
270.	PLT127		CFI	
Which statement is tru				de conditions?
A) The acceleration ra		•	_	
B) The acceleration ra		_	•	
C) A higher-than-norm	nal indicated airspeed	is required to p	produce sufficient lift	since the air is less
dense.				
271.	PLT251		CFI	
The amount of water a		uels will		
A) remain the same re				
) B) increase as the tem		_		
C) increase as the tem	•			
,	•			
272.	PLT253		CFI	
	•		equipped with fuel t	tank sumps and a fuel
strainer quick drain, it	is necessary to drain	fuel from the		
A) fuel strainer drain.	tral arratans			
B) lowest point in the f	•			
C) fuel strainer drain a	ind the luel tank sump	J5.		

273.	PLT167	CFI
A possible result of using unpressurized airplane is	the emergency alternate source of static pres	ssure inside the cabin of an
A) airspeed indicator may	indicate less than normal.	
B) altimeter may indicate	an altitude lower than the actual altitude being	g flown.
C) altimeter may indicate	an altitude higher than the actual altitude beir	ng flown.
274.	PLT112	CFI
To help prevent overturni strong quartering tailwind	ng when taxiing light tricycle-gear airplanes (es, the	especially high-wing type) in
A) elevator should be pla	ced in the up position.	
B) elevator should be pla	ced in the down position.	
C) aileron on the downwin	nd side should be placed in the down position	
275.	PLT509	CFI
How does the wake turbu	llence vortex circulate around each wingtip?	
A) Inward, upward, and a	round each tip.	
B) Inward, upward, and c	ounterclockwise.	
C) Outward, upward, and	around each tip.	
276.	PLT064	CFI
•	t is the ceiling of the Class C airspace surroun	ding San Jose International
Airport (area 2)?	t is the ceiling of the Class C airspace surroun	iding San Jose International
Airport (area 2)? A) 2,500 feet AGL.	t is the ceiling of the Class C airspace surroun	iding San Jose International
Airport (area 2)? A) 2,500 feet AGL. B) 4,000 feet MSL.	t is the ceiling of the Class C airspace surroun	iding San Jose International
Airport (area 2)? A) 2,500 feet AGL.	t is the ceiling of the Class C airspace surroun	nding San Jose International
Airport (area 2)? A) 2,500 feet AGL. B) 4,000 feet MSL.	t is the ceiling of the Class C airspace surroun PLT064	iding San Jose International CFI
Airport (area 2)? A) 2,500 feet AGL. B) 4,000 feet MSL. C) 6,000 feet MSL.	PLT064 ming owner permission, what minimum avion	CFI
Airport (area 2)? A) 2,500 feet AGL. B) 4,000 feet MSL. C) 6,000 feet MSL. 277. (Refer to figure 45.) Assu	PLT064 ming owner permission, what minimum avionity port (area 8)?	CFI
Airport (area 2)? A) 2,500 feet AGL. B) 4,000 feet MSL. C) 6,000 feet MSL. 277. (Refer to figure 45.) Assurperation into Cuddihy Air A) Two-way radio communications.	PLT064 ming owner permission, what minimum avionity port (area 8)?	CFI
Airport (area 2)? A) 2,500 feet AGL. B) 4,000 feet MSL. C) 6,000 feet MSL. 277. (Refer to figure 45.) Assuration into Cuddihy Air A) Two-way radio community. B) None, if altitude remains	PLT064 ming owner permission, what minimum avioning or (area 8)? unications equipment.	CFI ics equipment is required for
Airport (area 2)? A) 2,500 feet AGL. B) 4,000 feet MSL. C) 6,000 feet MSL. 277. (Refer to figure 45.) Assuration into Cuddihy Air A) Two-way radio community. B) None, if altitude remains	PLT064 ming owner permission, what minimum avioning or (area 8)? unications equipment. ns at or below 1,200 feet MSL.	CFI ics equipment is required for
Airport (area 2)? A) 2,500 feet AGL. B) 4,000 feet MSL. C) 6,000 feet MSL. 277. (Refer to figure 45.) Assurption of Cuddihy Air A) Two-way radio community C) Refer to figure 44.) What	PLT064 ming owner permission, what minimum avioning owner permission, what minimum avioning owner (area 8)? unications equipment. unications equipment and transponder with en	CFI ics equipment is required for coding altimeter. CFI

B) Transponder a	and encoding altimeter.	
C) Two-way radio	communications equipment, t	ransponder, and encoding altimeter.
279.	PLT162	CFI
	ower, located on an airport with the airspace designation?	in Class D airspace, ceases operation for the day,
A) The airspace o	designation normally will not ch	ange.
B) The airspace r system is availab		ng as a weather observer or automated weather
C) The airspace r tower is not in op		ation of Class E and G airspace during the hours the
280.	PLT219	CFI
of the road than o	,	consistently smaller half-circle is made on one side t completed before crossing the road or reference
A) 1-2-3 because	the bank is decreased too rap	idly during the latter part of the turn.
B) 4-5-6 because	the bank is increased too rapi	dly during the early part of the turn.
C) 4-5-6 because	the bank is increased too slov	vly during the latter part of the turn.
281.	PLT022	CFI
In the aeronautication in the aeronautication in the aeronautication in the aeronautication in the aeronauticat	• • • • • • • • • • • • • • • • • • • •	ess, what is the first step in neutralizing a
A) Making a ratio	nal judgement.	
B) Recognizing h	azardous thoughts.	
C) Recognizing th	ne invulnerability of the situatio	n.
282.	PLT103	CFI
_	realistic perspective on one's a need to complete the flight.	attitude toward flying, a pilot should
•	sessment Hazardous Attitude I	nventory Test.
•	alistic and thorough flight instru	•
283.	PLT103	CFI
Hazardous attitud A) an appropriate		ot judgment can be effectively counteracted by
	on of these hazardous attitude	S.
	gful steps to be more assertive	

The DECIDE process of		CFI
	consists of six elements to help provide a pilot naking. These elements are to	a logical way of approaching
A) detect, estimate, cho	oose, identify, do, and evaluate.	
B) determine, evaluate,	, choose, identify, do, and eliminate.	
C) estimate, determine	, choose, identify, detect, and evaluate.	
285.	PLT320	CFI
•	between true north and magnetic north is	
A) magnetic deviation.		
B) magnetic variation.		
C) compass acceleration	on error.	
286.	PLT113	CFI
If the certification categ which maneuvers?	ory of an airplane is listed as 'utility,' it means	s the airplane is intended for
A) Any type of acrobation	c maneuver.	
B) All nonacrobatic mai	neuvers plus limited acrobatics including spin	S.
C) Any maneuver incide	ent to normal flying except acrobatics or spins	S.
287.	PLT447	CFI
	Certificate was issued on May 3 to a person of a Private Pilot Certificate, the medical certi	•
A) May 3, 24 months la	ter.	
A) May 3, 24 months la	ater.	
A) May 3, 24 months la B) May 31, 24 months l	ater.	CFI
A) May 3, 24 months la B) May 31, 24 months la C) May 31, 36 months la 288.	later. later.	
A) May 3, 24 months la B) May 31, 24 months la C) May 31, 36 months la 288. Who is responsible for	later. later. PLT419 administering the required knowledge test to	
A) May 3, 24 months la B) May 31, 24 months la C) May 31, 36 months la 288. Who is responsible for flight?	later. later. PLT419 administering the required knowledge test to tinstructor.	
A) May 3, 24 months la B) May 31, 24 months la C) May 31, 36 months 288. Who is responsible for flight? A) Any certificated fligh	later. later. PLT419 administering the required knowledge test to tinstructor. und instructor.	
A) May 3, 24 months la B) May 31, 24 months la C) May 31, 36 months 288. Who is responsible for flight? A) Any certificated flight B) Any certificated ground	later. later. PLT419 administering the required knowledge test to tinstructor. und instructor.	
A) May 3, 24 months la B) May 31, 24 months la C) May 31, 36 months la 288. Who is responsible for flight? A) Any certificated flight B) Any certificated ground C) The student's authorizated.	later. PLT419 administering the required knowledge test to t instructor. und instructor. rized instructor.	a student pilot prior to solo CFI
A) May 3, 24 months la B) May 31, 24 months la C) May 31, 36 months la 288. Who is responsible for flight? A) Any certificated fligh B) Any certificated ground C) The student's authorized. 289. A student pilot may not	later. PLT419 administering the required knowledge test to t instructor. und instructor. rized instructor. PLT448	a student pilot prior to solo CFI
A) May 3, 24 months la B) May 31, 24 months la C) May 31, 36 months 288. Who is responsible for flight? A) Any certificated fligh B) Any certificated grou C) The student's author 289. A student pilot may not A) received a minimum	later. PLT419 administering the required knowledge test to tinstructor. und instructor. rized instructor. PLT448 operate a balloon in initial solo flight unless t	a student pilot prior to solo CFI hat pilot has

290.	PLT220	CFI
	lot of aircraft A observes only the green wing, which aircraft has the right-of-way?	gtip light of aircraft B, and the
A) Aircraft A; it is to the I	•	
B) Aircraft B; it is to the		
C) Aircraft A; it is to the		
-,	3	
291.	PLT437	CFI
When an aircraft is being be readily available to ea	g flown over water, under what circumstance ach occupant?	e must approved flotation gear
A) At night and beyond	gliding distance from shore.	
B) Anytime the aircraft is	s beyond power-off gliding distance from sho	ore.
C) When operating for h	ire beyond power-off gliding distance from s	shore.
	- 1 - 1 - 2	a
292.	PLT172	CFI
	posed operation should a request be submines Cairspace without the required altitude re	
A) 1 hour.	ss c anspace without the required attitude re	eporting transponder:
B) 8 hours.		
C) 24 hours.		
C) 24 Hours.		
293.	PLT374	CFI
Assuring compliance wit	th airworthiness directives is the responsibili	ty of the
A) FAA certificated mecl	hanic.	
B) pilot in command of the	he aircraft.	
C) owner or operator of	the aircraft.	
294.	PLT291	CFI
For a brief summary of t patterns, the pilot should	he location and movement of fronts, pressud refer to	re systems, and circulation
A) a Radar Summary Ch	nart.	
B) an Aviation Area Fore	ecast.	
C) a Significant Weather	r Prognostic Chart.	
295.	PLT059	CFI
	tatements regarding an Aviation Routine We	
_	ry does not constitute a ceiling.	camer isoport (METAIS).
•	ry does not constitute a ceiling. orted only if the visibility is less than 5/8 mile	

3. The ceiling layer will	be designated by a 'C'.		
4. Mist (BR) can be rep	orted only if the visibility	is 5/8 mile up to six miles.	
5. Temperatures report	ted below zero will be pre	fixed with a '-'.	
6. There is no provision	n to report partial obscura	tions.	
Select the true stateme	ents.		
A) 2, 4, and 6.			
B) 2, 3, and 5.			
C) 1, 2, 5, and 6.			
296.	PLT037	CFI	
Interpret the following r	adar weather report:		
LIT 1133 AREA 4TRW	22/100 88/170 196/180 2	220/115 C2425 MT 310 AT 162/110	
A) There are four cells	with tops at 10,000 feet,	17,000 feet, and 11,500 feet.	
B) The maximum top o	f the cells is located 162°	and 110 NM from the station (LIT).	
C) The visibility is 4 mil	es in thunderstorms and	the intensity of thunderstorms remai	ns unchanged
297.	PLT061	CFI	
•		5 feet MSL, what is the height above	e ground level
of the base of the ceiling	ıg?		
A) 505 feet AGL.			
B) 1,295 feet AGL.			
C) 6,586 feet AGL.			
298.	PLT493	CFI	
The most rapid accumum between 0 °C to -15 °C		aircraft in flight may occur with temp	eratures
A) cumuliform clouds.			
B) stratiform clouds.			
C) any clouds or dry sr	iow.		
299.	PLT518	CFI	
Which condition could	be expected if a strong te	mperature inversion exists near the	surface?
A) Strong, steady dowr	ndrafts and an increase in	OAT.	
B) A wind shear with th	ne possibility of a sudden	loss of airspeed.	
C) An OAT increase or	decrease with a constan	t wind condition.	
300.	PLT511	CFI	
What type weather is a	ssociated with an advanc	ing warm front that has moist, unsta	ıble air?

	ning, steady precipitation.	
•	ooth air, steady precipitation. bulent air, showery-type precipitation.	
o) Camamorm ologgo, tar	balont all, onewery type precipitation.	
301.	PLT516	CFI
What causes wind?		
A) Coriolis force.		
B) Pressure differences.		
C) The rotation of the Ear	th.	
302.	PLT192	CFI
f clouds form as a result of clouds will be	of very stable, moist air being forced to ascen-	d a mountain slope, the
A) cirrus type with no vert	ical development or turbulence.	
B) cumulonimbus with co	nsiderable vertical development and heavy rai	ns.
C) stratus type with little v	rertical development and little or no turbulence	9.
202	DI TOOC	CEL
303.	PLT226	CFI
•	for the formation of fog is	
A) calm air.		
B) visible moisture. C) high relative humidity.		
o) high relative hamility.		
304.	PLT263	CFI
Which in-flight hazard is r	nost commonly associated with warm fronts?	
A) Ground fog.		
B) Advection fog.		
C) Precipitation-induced f	og.	
305.	PLT317	CFI
	microburst encounter may be as strong as	011
A) 6,000 feet per minute.	The court of court of the first section of the sect	
B) 4,500 feet per minute.		
C) 1,500 feet per minute.		
200	DI TO 44	051
306. Mhigh ang sinitation tung s	PLT344	CFI
	sually indicates freezing rain at higher altitude	2 S?
A) Snow.		

B) Hail. C) Ice pellets.				
307. An altimeter indicates A) 1,590 feet. B) 1,824 feet. C) 2,110 feet.	PLT041 1,850 feet MSL when set to 30.18	CFI 3. What is the approxima	ite pressure	altitude?
308. In what part of the atn A) Tropopause. B) Troposphere. C) Stratosphere.	PLT203 nosphere does most weather occu	CFI ir?		
Pilot and copilot Passengers - aft posit Baggage Fuel A) 185 pounds under B) 162 pounds under C) 162 pounds under	allowable gross weight; CG is local allowable gross weight; CG is local allowable gross weight; CG is local	ated within limits. ated within limits. ated aft of the aft limit.	PLT021 375 lb 245 lb 65 lb 70 gal	CFI
A) The inside wing sta B) The outside wing s	PLT245 occurs in a steep turn, how will the alls first because it is flying at a high stalls first because it is flying at a high ving stalls first; in a skid, the low we time.	her angle of attack. igher angle of attack.	nated flight, b	ooth
311. In a propeller-driven a A) minimum drag requ B) minimum power re C) maximum lift/drag	quired.	CFI t		

312.	PLT473	CFI
(Refer to figure	e 23.) Which is a slotted flap?	
A) 1.		
B) 3.		
C) 4.		
313.	PLT208	CFI
•	s in an unusual flight attitude and the nould be relied upon to determine pitc	attitude indicator has exceeded its limits, which hattitude before recovery?
A) Airspeed in	dicator and altimeter.	
B) Turn indicat	tor and vertical speed indicator.	
C) Vertical spe	eed indicator and airspeed indicator.	
314.	PLT336	CFI
Which instrumer level flight?	ent provides the most pertinent inforn	nation (primary) for pitch control in straight-and-
A) Altimeter.		
B) Attitude indi	icator.	
C) Airspeed in	dicator.	
315.	PLT253	CFI
Proper mixture achieved best	•	peration of a fuel injected engine can be
A) a fuel-flow of	gauge.	
B) an exhaust	gas temperature indicator.	
C) the recomm	nended manifold and RPM setting for	a particular altitude.
316.	PLT195	CFI
What could be	a result of a student focusing too far	ahead during a landing approach?
A) Reactions v	vill be either too abrupt or too late.	
B) Rounding o	ut too high and developing an excess	sive sink rate.
C) Difficulty in	judging the closeness of the ground i	esulting in a nose-first touchdown.
317.	PLT223	CFI
Which is true r	egarding the operation of a multiengi	ne airplane with one engine inoperative?
A) Banking tov	vard the operating engine increases \	/MC.
B) Banking tov	vard the inoperative engine increases	WMC.
C) VMC is a de	esigned performance factor which mu	st be proven during type certification and will
•	long as the ball is centered with appr	

318.	PLT103	CFI
The aeronautical making. One of the	• , , ,	ess identifies several steps involved in good decision
A) developing a '	can do' attitude.	
B) making a ratio	nal evaluation of the required	actions.
C) identifying per	sonal attitudes hazardous to	safe flight.
319.	PLT270	CFI
Examples of clas	sic behavioral traps that expe	erienced pilots may fall into are to
A) assume addition	onal responsibilities and asse	ert PIC authority.
B) promote situat	tional awareness and then ne	cessary changes in behavior.
C) complete a flig	ght as planned, please passe	ngers, meet schedules, and 'get the job done.'
320.	PLT481	CFI
When should a fl	ight instructor begin teaching	aeronautical decision making (ADM) to a student?
A) Beginning with	n the first lesson.	
B) As soon as the	e student is able to control the	e aircraft during basic maneuvers.
C) After the stude	ent has completed the initial s	solo flight but before conducting cross country flights.
321.	PLT022	CFI
	nt, as part of the aeronautical e the risks associated with ea	decision making (ADM) process, relies on which ach flight?
A) Application of	stress management and risk	element procedures.
B) Situational aw	areness, problem recognition	, and good judgment.
C) The mental pr decision on what	, ,	ation in a particular situation and making a timely
322.	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 fror	n right to left.
B) Concentrate o	n relative movement detected	d in the peripheral vision area.
C) Systematically	focus on different segments	of the sky for short intervals.
323.	PLT295	CFI
During training fli	ghts, an instructor should inte	erject realistic distractions to determine if a student can
A) learn despite s	stressful conditions.	
B) maintain aircra	aft control while his/her attent	ion is diverted.

324. PLT0	91	0.51
	~ ·	CFI
	c heading of 170° is maintained and yo ative bearing to the station when you int	_
B) 270°.		
C) 280°.		
325. PLT4:	57	CFI
Prior to a first solo flight, the fligh	nt instructor is required to endorse the s	tudent's
A) logbook.		
B) pilot certificate.		
C) logbook and pilot certificate.		
326. PLT1	61	CFI
What are the requirements, if an	y, to overfly Class C airspace?	
A) None, provided the flight rem	ains above the airspace ceiling.	
B) Transponder with automatic a and upward to 10,000 feet MSL.	altitude reporting capability is required a	bove the airspace ceiling
C) Two-way radio communication perating at all times.	ons must be established with ATC and to	ransponder must be
327. PLT4:	25	CFI
•	was substantially affected by an alteration is test flown and approved for return to s	-
A) with passengers aboard.		
B) for compensation or hire.		
C) by instructors and students.		
328. PLT3	72	CFI
	passengers aboard has a 100-hour ins nour inspection would be due after	spection performed after 90
A) 90 hours' time in service.		
B) 100 hours' time in service.		
C) 110 hours' time in service.		
documents must show that it was rated pilot prior to being flown A) with passengers aboard. B) for compensation or hire. C) by instructors and students. PLT3: An aircraft operated for hire with hours in service. The next 100-h A) 90 hours' time in service. B) 100 hours' time in service.	rs test flown and approved for return to some state of the solution of the solution and approved for return to solution in the solution of the	service by an appropriate

329.	PLT263	CFI	
Which is an operati	ional consideration rega	arding aircraft structural icing?	
A) It is unnecessary	y for an aircraft to fly thi	rough rain or cloud droplets for structural ice	to form.
B) Clear ice is mos	t likely to form on an air	rplane when flying through stratified clouds o	or light drizzle.
C) In order for structure of the contract of the C (32 °F) in the C (32 °F) in the contract of the C (32 °F) in the contract of the contract of the C (32 °F) in the contract of the contract		mperature at the point where moisture strike	es the aircraft
330.	PLT518	CFI	
How long do the ma	aximum intensity winds	last in an individual microburst?	
A) 2 to 4 minutes.			
B) 5 to 10 minutes.			
C) 15 minutes.			
331.		PLT021	CFI
What is the location	n of the CG if 90 pound	s are removed from Station 140?	
Aircraft weight		6,230 lb	
CG location		Station 79	
A) 79.9.			
B) 78.1.			
C) 77.9.			
332.	PLT021	CFI	
` •) If 50 pounds of weight be located at point Y to	t is located at point X and 100 pounds at poi balance the plank?	nt Z, how
C) 300 pounds.			
333.	PLT021	CFI	
		ound weight be shifted to balance the plank	on the
A) 2.5 inches to the	e left.		
B) 2 inches to the r	ight.		
C) 2 inches to the le	eft.		
334.	PLT021	CFI	
	an airplane moves aft of the control of that airplane? It were the control of the	during gear retraction, how would this aft movould	ovement
A) cause the CG lo	•		

B) have no effect o	on the CG location.	
C) cause the CG lo	ocation to move forward.	
335.	PLT120	CFI
	e is encountered, the aircraft's airspeed should b	
A) maneuvering sp	·	
B) normal structura		
•	eady flight speed in the landing configuration.	
336.	PLT237	CFI
Maximum gliding d	listance of an aircraft is obtained when	
A) parasite drag is	the least.	
B) induced drag an	nd parasite drag are equal.	
C) induced drag ed	quals the coefficient of lift.	
337.	PLT257	CFI
When a slight upwa	ard or negative flap deflection is used, the result	is
A) increased drag.		
B) decreased drag		
C) decreased lift.		
338.	PLT278	CFI
· .	cator marking identifies the maximum structural	cruising speed of an aircraft?
A) Red radial line.B) Upper limit of th	o groop are	
C) Upper limit of th		
C) Opper limit of th	ie yellow arc.	
339.	PLT170	CFI
What normally resu	ults from excessive airspeed on final approach?	
A) Bouncing.		
B) Floating.		
C) Ballooning.		
340.	PLT208	CFI
If an emergency sit	tuation requires a downwind landing, pilots shou	ld expect a faster
A) airspeed at touc	chdown, a longer ground roll, and better control th	hroughout the landing roll.
· -	touchdown, a longer ground roll, and the likeliho	ood of overshooting the desired
touchdown point.		

C) groundspeed desired touchdo	•	und roll, and the likelihood of undershooting the
341.	PLT304	CFI
A) 10° at 50 fee B) 15° at 50 fee	aunch, the pitch angle of the get, 20° at 100 feet, and 45° at 20° at 100 feet, and 40° at 20° at 100 feet, and 45° at 20° at 100 feet, and 45° at 20° at 20	200 feet. 200 feet.
342.	PLT494	CFI
The reason for thermals weake	•	nermals are strong and dumping the water when
A) decrease for	ward speed.	
B) increase forv	vard speed.	
C) decrease the	e rate of descent.	
343.	PLT474	CFI
A) All turns sho B) Turns should	uld be to the right. If be in the same direction as the	e same thermal, which statement is true? he highest glider. on as the first glider to enter the thermal.
344.	PLT457	CFI
One requiremei endorsement	nt for a student pilot to be auth	norized to make a solo cross-country flight is an
A) in the studer model of aircraf	_	has given the student cross-country instruction in the
•	nt's logbook that the preflight pared to make the flight safely.	lanning and preparation has been reviewed and the
	ent Pilot Certificate stating the ass, and type of aircraft involv	student is competent to make cross-country flights in red.
345.	PLT163	CFI
	y VFR in Class B airspace, wh y and clear of clouds.	at are the visibility and cloud clearance requirements?
•	•	above, and 2,000 feet horizontal distance from clouds. above, and 2,000 feet horizontal distance from clouds.
346.	PLT070	CFI

the Stability Chart? A) Stable air; predominate B) High relative humidity;	are the probable weather conditions in the arely fair. showers and thunderstorms. ; moderate turbulence and possible thunderst	·
347.	PLT511	CFI
Consider the following sta	tements about mountain waves:	
1. Mountain waves always	s develop in a series on the upwind (windward	d) side of mountain ridges.
	e air dips sharply downward immediately to the motion for a considerable distance downstre	_
If the air is humid and the wave's crest.	he wave is of large amplitude, lenticular (lens-	-shaped) clouds mark the
4. In a typical wave, the g elevation.	reatest amplitude is seldom more than 1,000	feet above the ridge crest
From the statements above	ve, select those which are true.	
A) 2 and 3.		
B) 1, 2, and 3.		
C) 1, 3, and 4.		
348.	PLT474	CFI
	rable to wave formation over mountainous are ntop altitude and a wind of at least 15 to 25 k	•
	op altitude and a wind of at least 15 to 25 kno nountaintop altitude and a wind of less than 5	
349.	PLT501	CFI
_	ng into the wind.	danger from vertical and
350.	PLT501	CFI
	us features of mountain waves is the turbulent	t areas in and

C) below lenticu	lar clouds.	
351.	PLT510	CFI
Which is true reg	garding the development of conv	ective circulation?
A) Cool air must	sink to force the warm air upwar	rd.
B) Warm air is le	ess dense and rises on its own a	ccord.
-	ounding convective circulation sinual), thus forcing the warmer air u	ks at a greater rate than the warmer air rises ipward.
352.	PLT494	CFI
An important pre	ecaution when soaring in a dust c	levil is to
A) avoid the eye	of the vortex because of extrem	e turbulence.
B) avoid steep to	urns on the upwind side to preve	nt being blown into the vortex.
C) avoid the clea	ar area at the outside edge of the	dust because of severe downdrafts.
353.	PLT482	CFI
Which statemen	t is true about instructors' critique	es?
A) Instructors sh	ould rely on their personality to r	nake a critique more acceptable.
B) A comprehen	sive critique should emphasize p	ositive aspects of student performance.
C) Before stude	nts willingly accept their instructo	r's critique, they must first accept the instructor.
354.	PLT482	CFI
A written test is	said to be comprehensive when i	t
A) includes all le	evels of difficulty.	
B) samples liber	ally whatever is being measured	
C) measures kn	owledge of the same topic in ma	ny different ways.
355.	PLT482	CFI
Which is the ma	in disadvantage of supply-type te	est items?
A) They cannot	be graded with uniformity.	
B) They are read	dily answered by guessing.	
C) They are eas	ily adapted to statistical analysis.	
356.	PLT482	CFI
A written test ha	s validity when it	
A) yields consist	tent results.	
B) samples liber	ally whatever is being measured	
C) measures wh	nat it is supposed to measure.	

357.	PLT482	CFI
Which is one of the major	difficulties encountered in the construction of	multiple-choice test items?
A) Adapting the items to s	tatistical item analysis.	
B) Keeping all responses	approximately equal in length.	
C) Inventing distractors w	hich will be attractive to students lacking know	ledge or understanding.
358.	PLT482	CFI
In a written test, which typ responses?	e of selection-type test items reduces the prol	bability of guessing correct
A) Essay.		
B) Matching.		
C) Multiple-choice.		
359.	PLT482	CFI
When an instructor critiqu	es a student, it should always be	
A) done in private.		
B) subjective rather than of	objective.	
C) conducted immediately	after the student's performance.	
360.	PLT211	CFI
Practical tests for pilot cer	tification are	
A) norm-referenced.		
B) criterion-referenced.		
C) evaluation-referenced.		
361.	PLT481	CFI
	ical Test Standards (PTS) is to ensure the cer proficiency, consistent with	tification of pilots at a high
A) safety.		
B) the time available.		
C) their abilities.		
362.	PLT482	CFI
During oral quizzing in a g	given lesson, effective questions should	
A) be brief and concise.		
B) provide answers that c	an be expressed in a variety of ways.	
C) divert the student's tho	ughts to subjects covered in previous lessons	

363.	PLT482	CFI
To be effective in	n oral quizzing during the condu	ict of a lesson, a question should
A) be of suitable	difficulty for that stage of trainir	ng.
B) include a com	bination of where, how, and wh	y.
C) divert the stud	dent's thoughts to subjects cove	ered in other lessons.
364.	PLT487	CFI
Which method of flight computer?	f presentation is desirable for te	aching a skill such as ground school lesson on the
A) Lecture/applic	cation.	
B) Presentation/p	oractice.	
C) Demonstration	n/performance.	
365.	PLT204	CFI
	effectively, instructors must	5
	level of comprehension.	
,	nosphere which encourages qu	restioning
	ive attitude while delivering thei	-
o) 1010a. a pool.	iro attitudo irimo denvering tiro.	eeeage.
366.	PLT204	CFI
By using abstrac	tions in the communication pro	cess, the communicator will
A) bring forth spe	ecific items of experience in the	minds of the receivers.
B) be using word	ls which refer to objects or idea	s that human beings can experience directly.
C) not evoke in to intends.	he listener's or reader's mind th	e specific items of experience the communicator
367.	PLT204	CFI
The effectivenes	s of communication between in	structor and student is measured by the
	amic, interrelated elements.	·
	veen the idea transmitted and th	ne idea received.
C) relationship be	etween communicative and dyr	namic elements.
368.	PLT204	CFI
Probably the gre	atest single barrier to effective	communication in the teaching process is a lack of
A) respect for the		
	rmony between instructor and	
C) a common ex	perience level between instruct	or and student.

369.	PLT419	CFI	
When has instruction take	en place?		
A) When all the required r	naterial has been presented.		
B) When a procedure has	been explained, and the desired student resp	onse has occurred.	
C) When the student hear	s what is presented.		
070	DI Too		
370.	PLT233	CFI	
When a student uses excomechanism known asA) flight.B) aggression.C) rationalization.	uses to justify inadequate performance, it is ar	n indication of the defense	
371.	PLT270	CFI	
	man needs offer the greatest challenge to an i		
A) Social.	man needs oner the greatest onalienge to an i	noti dotoi :	
B) Egoistic.			
C) Self-fulfillment.			
-,			
372.	PLT270	CFI	
Before a student can cond	centrate on learning, which human needs mus	t be satisfied?	
A) Safety.			
B) Physical.			
C) Security.			
373.	PLT231	CFI	
When under stress, norma	al individuals usually react		
A) by showing excellent m	norale followed by deep depression.		
B) by responding rapidly a training.	and exactly, often automatically, within the limi	ts of their experience and	
C) inappropriately such as laughing or singing.	s extreme over-cooperation, painstaking self-c	ontrol, and inappropriate	
374.	PLT231	CFI	
The instructor can counte	The instructor can counteract anxiety in a student by		
A) treating the student's fe	ears as a normal reaction.		
B) discontinuing instructio	n in tasks that cause anxiety.		
C) allowing the student to	decide when he/she is ready for a new maneu	uver to be introduced.	

375.	PLT233	CFI
When students di	splay the defense mechani	ism called aggression, they
A) become visibly	angry, upset, and childish	-
B) may refuse to	participate in class activitie	S.
C) attempt to just	ify actions by asking nume	rous questions.
376.	PLT269	CFI
	isks irrelevant questions or lefense mechanism known	refuses to participate in class activities, it usually is an as
A) flight.		
B) aggression.		
C) resignation.		
377.	PLT504	CFI
Which is a true st	atement concerning the us	e of instructional aids?
A) Instructional ai	ds ensure getting and hold	ing the student's attention.
B) Instructional ai	ds should be designed to c	cover the key points in a lesson.
C) Instructional ai	ds should not be used simple	ply to cover a subject in less time.
378.	PLT230	CFI
Which statement techniques?	is true regarding positive o	r negative approaches in aviation instructional
-	normal abilities should not dures early in training.	be affected by an instructor who emphasizes
	roach, to be effective, will poilities are discussed.	point out the pleasurable features of aviation before the
•	on of emergency procedure y to be neither discouraging	es before the student is acquainted with normal g nor affect learning.
379.	PLT232	CFI
Faulty performand	ce due to student overconfi	dence should be corrected by
A) increasing the	standard of performance for	or each lesson.
B) praising the stu	udent only when the perfor	mance is perfect.
C) providing stron	ng, negative evaluation at th	ne end of each lesson.
380.	PLT490	CFI
An instructor can	most effectively maintain a	high level of student motivation by
A) making each le	esson a pleasurable experi	ence.
B) relaxing the sta	andards of performance red	quired during the early phase of training.

C) continually c established.	hallenging the student to meet th	ne highest objectives of training that can be
381.	PLT229	CFI
True performan A) attitude. B) perseverance C) research.	ce as a professional is based on e.	study and
382.	PLT229	CFI
Which statemer	nt is true regarding true profession	nalism as an instructor?
A) Anything less	s than sincere performance dest	roys the effectiveness of the professional instructor.
B) To achieve p practices.	professionalism, actions and deci	sions must be limited to standard patterns and
. •	nition of professionalism would e which must be present.	encompass all of the qualifications and
383.	PLT230	CFI
In evaluating sto A) remain silent		ability, it is important for the flight instructor to
B) keep the stud	dent informed of progress.	
C) explain error	s in performance immediately.	
384.	PLT211	CFI
Evaluation of de	emonstrated ability during flight in	nstruction must be based upon
A) established s	standards of performance, suitab	ly modified to apply to the student's experience.
B) the progress training.	of the student, considering the t	ime and experience attained since beginning
C) the instructor	r's background and experience r	elating to student pilots at this stage of training.
385.	PLT481	CFI
•	ttle and announcing 'simulated e	xaminer simulates complete loss of engine power by ngine failure'. What level of learning is being tested?
386.	PLT308	CFI
Insights, as app	olied to learning, involve a persor	n'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.	
387.	PLT308	CFI
Individuals make more pr principle of	ogress learning if they have a clear objective.	This is one feature of the
A) primacy.		
B) readiness.		
C) willingness.		
388.	PLT308	CFI
Which statement is true c	oncerning motivations?	
A) Motivations must be ta	ngible to be effective.	
B) Motivations may be ve	ry subtle and difficult to identify.	
C) Negative motivations of	often are as effective as positive motivations.	
389.	PLT307	CFI
Where is information for f	uture use stored?	
A) Sensory register.		
B) Short-term memory.		
C) Long-term memory.		
390.	PLT308	CFI
The learning process may	y include some elements such as verbal, cond	eptual, and
A) habitual.		
B) experiential.		
C) problem solving.		
391.	PLT490	CFI
Which is generally the mo	ore effective way for an instructor to properly n	notivate students?
A) Maintain pleasant pers	sonal relationships with students.	
B) Provide positive motiva	ations by the promise or achievement of rewa	rds.
C) Reinforce their self-co	nfidence by requiring no tasks beyond their ab	ility to perform.
392.	PLT308	CFI
	a result of experience can be defined as	
A) learning.	•	

B) knowledge.		
C) understanding.		
393.	PLT306	CFI
Responses that pr	oduce a pleasurable return are ca	ılled
A) reward.		
B) praise.		
C) positive feedba	ck.	
394.	PLT308	CFI
A learning plateau	may be defined as the	
A) point in the lear	ning curve at which skill proficiend	cy retrogresses.
B) normal leveling-	-off of an individual's learning rate	
C) achievement of	the highest possible level of com	petence for a particular individual.
395.	PLT307	CFI
•	heory, some forgetting is due to the subconscious. This is called	ne practice of submerging an unpleasant
A) blanking.		
B) immersion.		
C) repression.		
396.	PLT307	CFI
Which memory sys	stem processes input from the env	vironment?
A) Working.		
B) Long-term.		
C) Sensory registe	er.	
397.	PLT487	CFI
The best way to pr	epare a student to perform a task	is to
A) explain the purp	oose of the task.	
B) provide a clear,	step-by-step example.	
C) give the studen	t an outline of the task.	
398.	PLT295	CFI
Which transfer of loof another maneuv		ance of a maneuver interferes with the learning
A) Adverse.		

B) Positive. C) Negative.		
o) Negative.		
399.	PLT308	CFI
Which factor affecting ր	perception has a great influe	ence on the total perceptual process?
A) Self-concept.		
B) Goals and values.		
C) Time and opportunit	ty.	
400.	PLT306	CFI
What level of knowledglisted in the owner's ma		What is the maneuvering speed of the aircraft
A) Rote.		
B) Application.		
C) Understanding.		
401.	PLT308	CFI
A basic need that affec	ts all of a person's perception	ons is the need to
A) maintain and enhan	ce the organized self.	
B) accomplish a higher	level of satisfaction.	
C) avoid areas that pos	se a threat to success.	
402.	PLT308	CFI
What is the basis of all	learning?	
A) Perception.		
B) Motivation.		
C) Positive self-concep	t.	
403.	PLT308	CFI
Which principle of learr substitute?	ning implies that a student w	rill learn more from the real thing than from a
A) Principle of effect.		
B) Principle of primacy		
C) Principle of intensity	' .	
404.	PLT308	CFI
An instructor may foste	r the development of insigh	ts by
A) helping the student	acquire and maintain a favo	rable self-concept.

, .	e attractive features of the act e of learning consistent so the	•
405. The mental groupi A) insights. B) association. C) conceptualizati	PLT308 ng of affiliated perceptions is on.	CFI
406. Which domain of leads A) Cognitive. B) Affective. C) Psychomotor.	PLT308 earning deals with knowledge	CFI e?
A) use the building B) repeat subject i	PLT228 habits and correct techniques g block technique of instruction matter the student has alread enging material to continually	ly learned.
408. The principle that in the principle that in the primacy. C) intensity.	PLT308 is based on the emotional rea	CFI action of the learner is the principle of
A) attention, motiv B) introduction, de	PLT228 raining syllabus includes ation, and overview. evelopment, and conclusion. ent, and completion standards	CFI s.
A) Lesson plans s		CFI ? the course objective; only to the lesson objective. I may be used any time as long as the instructor is

C) Lesson plans help instr students.	ructors keep a constant check on their own ac	tivity as well as that of their
411.	PLT228	CFI
A) preparation, introduction B) preparation, presentation	uately developed, falls logically into the four st on, presentation, and review and application. on, application, and review and evaluation. on, presentation, and review and evaluation.	eps of the teaching process
A) determine the overall o B) establish common grou	PLT491 nal activity, the first consideration should be to bjectives and standards. and between the instructor and student. arning which make up the overall objective.	CFI
413.(Refer to figure 1.) SectionA) Overview.B) Objective.C) Introduction.	PLT228 n A is titled:	CFI
414.(Refer to figure 1.) SectionA) Content.B) Equipment.C) Instructor's Actions.	PLT228 n D is titled:	CFI
A) proceeding from the un B) the teaching procedure	PLT228 ed properly, will provide an outline for known to the known. to be used in a single instructional period. earning that become progressively larger in so	CFI cope.
A) They are usually neces B) They detract from the c	PLT295 concerning extraneous blocks of instruction durs sary parts of the total objective. completion of the final objective. comment of the lesson's objective.	CFI ring a course of training?

417.	PLT482	CFI
Which would mo	ore likely result in students bec	oming frustrated?
A) Giving the stu	idents meaningless praise.	
	nts their work is unsatisfactory	with no explanation.
	•	when the instructor is in doubt.
418.	PLT419	CFI
Student confider	nce tends to be destroyed if in	structors
A) bluff wheneve	er in doubt about some point.	
B) continually ide	entify student errors and failure	es.
C) direct and cor	ntrol the student's actions and	behavior.
419.	PLT488	CFI
A question direction direction is identified as	ted to an entire group to stimu	late thought and response from each group member
A) Relay.		
B) Overhead.		
C) Rhetorical.		
420.	PLT488	CFI
Which question votorque?	would be best as a leadoff que	estion for a guided discussion on the subject of
A) Does torque a	affect an airplane?	
B) How does tor	que affect an airplane?	
C) What effect d	oes torque have on an airplan	e in a turn?
421.	PLT488	CFI
• •	students have adequately dis of the most valuable tools an i	scussed the ideas presented during a guided nstructor can use is
A) a session of v	erbal testing.	
B) a written test	on the subject discussed.	
C) an interim sur	mmary of what the students ac	ccomplished.
422.	PLT487	CFI
In the demonstrace concurrently?	ation/performance method of in	nstruction, which two separate actions are performed
A) Instructor exp	lanation and demonstration.	
B) Student perfo	rmance and instructor supervi	sion.

C) Instructor ex	planation and student demonstrati	on.
423.	PLT487	CFI
A) Summary. B) Evaluation.	step in the demonstration/perform	nance method?
C) Student perf	formance.	
424.	PLT505	CFI
Which stateme	nt is true concerning computer-bas	sed training (CBT)?
A) CBT may be	used by the instructor as stand-al	one training.
B) One of the m for them.	najor advantages of CBT is that stu	udents can progress at a rate which is comfortable
C) The instructo	or need not be actively involved wi	th the students when using instructional aids.
425.	PLT488	CFI
The first step in	preparing a lecture is to	
A) research the	subject.	
B) develop the	main ideas or key points.	
C) establish the	e objective and desired outcome.	
426.	PLT491	CFI
The proper seq	uence for the subparts of an introd	luction is
A) attention, mo	otivation, and overview.	
B) attention, de	velopment, and overview.	
C) overview, m	otivation, and conclusion.	
427.	PLT491	CFI
The method of unknown, is one		e simple to complex, past to present, and known to
A) creates stud	ent thought pattern departures.	
B) shows the re	elationships of the main points of the	ne lesson.
C) requires stud	dents to actively participate in the l	esson.
428.	PLT491	CFI
In developing a student	lesson, the instructor should orga	nize explanations and demonstrations to help the
A) achieve the	desired learning outcome.	
B) acquire a tho	prough understanding of the mater	ial presented.

C) acquire new cond	cepts, generally progressing from	the known to the unknown.
429.	PLT488	CFI
An instructor can ins A) questions. B) visual aids. C) encouragement.	spire active student participation of	during informal lectures through the use of
430.	PLT488	CFI
A) continually require B) usually requires p	characteristic of group learning in estactive participation of the stude passive participation of the studern estactive participation of both the	lent. nt.
431.	PLT482	CFI
	rue regarding student evaluation	
,	n evaluations can only be objecti	
•	•	ntegral part of each lesson. esent lesson are revealed, they should be
432.	PLT211	CFI
Evaluation of studen	at performance and accomplishm	ent during a lesson should be based on
A) objectives and go	pals established in the lesson plan	n.
B) performance of ea	ach student compared to an obje	ective standard.
C) each student's ab	oility to make an objective evalua	tion of their own progress.
433.	PLT295	CFI
Students who grow i	mpatient when learning the basic	c elements of a task are those who
A) are less easily dis	scouraged than the unaggressive	e students.
B) should have the peach step.	oreliminary training presented one	e step at a time with clearly stated goals for
•	ced to the next higher level of lea eached before they proceed to th	rning and not held back by insisting that the next level.
434.	PLT227	CFI
During integrated flig	ght instruction, the instructor mus	t be sure the student
A) develops the hab	it of looking for other traffic.	
B) is able to control to	the aircraft for extended periods	under IMC

C) can depend o	n the flight instruments when n	naneuvering by outside references.
435.	PLT295	CFI
Students quickly	become apathetic when they	
A) realize materia	al is being withheld by the instr	uctor.
B) understand th	e objectives toward which they	vare working.
C) recognize that	t the instructor is not adequate	ly prepared.
436.	PLT295	CFI
Which is one of t	he ways in which anxiety will a	iffect a student?
A) Anxiety may li	imit the student's ability to learn	n from perceptions.
B) Anxiety will sp the instructor.	peed up the learning process for	or the student if properly controlled and directed by
C) Anxiety cause interfere with nor	-	ention over such a wide range of matters as to
437.	PLT227	CFI
Integrated flight i	instruction has many benefits b	out, the main objective is to
A) develop the st	tudent's ability to fly the aircraft	during inadvertent IMC.
B) ensure the stu	udent is not overly dependent o	on instruments during VFR flight.
C) help the stude	ent develop habit patterns for o	bservance of and reliance on flight instruments.
438.	PLT259	CFI
Ground resonand	ce is most likely to occur when	
A) there is a sude	den change in velocity of the p	lane of rotation.
B) a series of sho	ocks cause the rotor system to	become out of balance.
C) initial ground	contact is made with a combina	ation of high gross weight and low RPM.
439.	PLT236	CFI
When the angle	of attack of a symmetrical airfo	il is increased, the center of pressure will
A) remain unaffe	cted.	
B) have very little	e movement.	
C) move aft alon	g the airfoil surface.	
440.	PLT235	CFI
Removing the ro	tor force on a gyroplane can le	ad to
A) a power push	over.	
B) increased roto	or RPM.	

C) pilot induce	ed oscillation.	
441.	PLT470	CFI
Rotor blade fla	apping action is	
B) an aerodyn	ature permitting continual changes	d and blade angle of attack. and cannot be controlled by the pilot. in the rotor blade angle of attack, compensating
442.	PLT470	CFI
	ion of lift and centrifugal force prod	
A) coning.	ion of int and continugal force prod	4000
B) flapping.		
C) Coriolis effo	ect.	
443.	PLT199	CFI
During flight, i	f you apply cyclic control pressure to a position approximately 90° to yo	which results in a decrease in pitch angle of the
444.	PLT470	CFI
Feathering of order to	rotor blades means the angular cha	ange of the blades during a cycle of revolution in
A) counteract	gyroscopic precession.	
B) equalize lift	t on upwind and downwind sides of	the rotor disc.
C) equalize lift	t on the opposite (retreating and ac	Ivancing blade) side of the disc.
445.	PLT470	CFI
	— · · · · · · · · · · · · · · · · · · ·	ent engages the clutch and prerotates the rotor to ngaging the clutch, the gyroplane will turn
A) left becaus	e of rotor torque.	
B) right becau	se of rotor torque.	
C) right becau	se of engine propeller torque.	
446.	PLT470	CFI
_	d cruising flight at constant airspee each other, are operating at	d and altitude, the individual rotor blades, when

	equal angles of attack, and unequal lift moment.	
	inequal angles of attack, and equal lift moment.	
C) constant airspeed, (unequal angles of attack, and unequal lift mome	ent.
447.	PLT470	CFI
How does a negative (G maneuver affect a gyroplane's rotor RPM?	
A) Increases rapidly.		
B) Remains the same.		
C) Decreases rapidly.		
448.	PLT240	CFI
If the gyroplane's CG is cause the nose to mov	s below the propeller thrust line, which direction re?	will the application of power
A) The nose will pitch	up.	
B) The nose will pitch o	down.	
C) The nose will not m	ove.	
449.	PLT470	CFI
When is rotor downwa	sh most prevalent in certain gyroplanes?	
A) During all surface m	novement.	
B) Immediately prior to	touchdown after a steep approach.	
C) During a vertical tak	keoff when rotor blades are in a propeller state.	
450.	PLT470	CFI
During the transition from	om prerotation to flight, all rotor blades change	pitch
A) simultaneously to th	ne same angle of incidence.	
B) simultaneously but	to different angles of incidence.	
C) to the same degree	at the same point in the cycle of rotation.	
451.	PLT470	CFI
	ern in gyroplanes only during	
A) prerotation or clutch		
B) maneuvers requiring		
•	nce climbs and go-arounds requiring higher en	gine RPM.
452.	PLT470	CFI
	uring powered flight in a gyroplane is produced	
A) horizontal compone		-, .
,		

,	gine propeller thrust and rotor blade drag. er through the clutch to the rotor shaft.	
453.	PLT244	CFI
A) Low speed.	er push-over in a gyroplane?	
B) Rotor force is removed		
C) Decreasing power too	quickly.	
454.	PLT095	CFI
Longitudinal and lateral co A) antitorque pedals.	ontrol of a gyroplane in flight are affected by	
B) tilting the plane of rotat	tion of the rotor in the direction that control is	desired.
C) adjusting the pitch of the	ne rotor blades to the angle and direction that	control is desired.
455.	PLT470	CFI
A) horizontal flight at high B) climbing flight in which	greatest tendency to roll during speed. forward airspeed decreases. hich forward airspeed decreases.	
456.	PLT213	CFI
What should help prevent A) Adding a horizontal sta	aircraft induced oscillation on a gyroplane?	
B) Increasing cyclic contro	ol sensitivity.	
C) Lowering the center of	gravity below the thrust line.	
457.	PLT244	CFI
Which maneuver would capushover?	ause the unloading the rotor system and resu	It in a possible power
A) Just prior to landing.		
B) During a steep descen	t.	
C) After a pushover from	a steep climb.	
458.	PLT260	CFI
Low speed blade flap on a A) taxiing too fast.	a gyroplane is a result of	
B) rotor blade pitch set to	o high.	

C) the rotor blades bei	ng too heavy.	
459.A one-per-revolution vA) Rotor blades out ofB) One rotor blade outC) Possible onset of re	of track.	CFI ch condition?
A) Keeping the rotor so B) Cyclic stick should	PLT149 ng taxi procedures in a gyroplane? ystem level creates less lift and more be positioned slightly aft of neutral when the turning when taxiing over a residence.	nen taxiing.
461.Most midair collision aA) hazy days.B) clear days.C) cloudy nights.	PLT195 ccidents occur during	CFI
A) turn the head and s B) avoid staring direct	PLT194 hnique to use for detecting other airconnection weep the eyes rapidly over the entire by at the point where another aircraft in region below the horizon so as to avoid	e visible region. s suspected to be flying.
A) Avoid flight at highB) Increase power if n		
A) longitudinal axis beB) direction of motion	PLT112 lane in crosswind conditions, proper to parallel to the runway. and heading coincide with runway direlyroplane be parallel to the gyroplane	rection.

465.	PLT222	CFI	
	ain level flight (laterally) as airs	speed increases on climbout after take	off in a
A) rudder pressu	ure to the left.		
B) cyclic pressur	e to the right.		
C) rudder and cy	clic pressure to the left.		
466.		PLT012	CFI
GIVEN:			
Usable fuel at ta	keoff	40 gal	
Fuel consumption	n rate	12.2 gal/hr	
Constant ground	Ispeed	120 kts	
Flight time since	takeoff	1 hr 30 min	
According to FA	R Part 91, how much farther ca	an a rotorcraft be flown under day VFR	?
A) 215 NM.			
B) 176 NM.			
C) 121 NM.			
467.	PLT451	CFI	
As pilot, how mu with a gyroplane		l an applicant have for a Commercial P	ilot Certificate
A) 150 hours.			
B) 100 hours.			
C) 25 hours.			
468.	PLT242	CFI	
	fective translational lift during a increases. Why is this action re	a normal takeoff, additional forward cycequired?	clic is required
A) To counteract	t gyroscopic precession.		
B) To counteract	t the increase in lift which would	d result in the nose rising.	
C) To counterac	t the dissymmetry of lift which o	causes the helicopter to roll to the left.	
469.	PLT470	CFI	
(Refer to figure 3 required to main	,	ich portion of the rotor blades provides	the thrust
A) Inner or stall.			
B) Outer or prop	eller.		

C) Middle or autorotative.

470.	PLT470	CFI
Tip path plane may	be described as	
A) meaning the sar	ne as rotor disc.	
B) being proportion	al to disc loading.	
C) the longitudinal	axis of the rotor disc in horizontal flight.	
471.	PLT470	CFI
With the rotor turnir	ng at normal operating RPM, blades will bend upwa	rd due to
A) lift being greater	than drag.	
	being greater than lift.	
C) lift being greater	than centrifugal force.	
472.	PLT197	CFI
Coriolis effect caus		OI I
A) vary the angle o		
B) accelerate and c		
,	rees in the direction of rotation.	
c) p. 00000 00 dog.		
473.	PLT470	CFI
The ability of a roto	r blade to rotate about its spanwise axis is called	
A) flapping.		
B) feathering.		
C) dragging or hunt	ting.	
474.	PLT470	CFI
	of a rotorcraft is restricted primarily by	
A) dissymmetry of I		
B) transverse flow (
´ C) high-frequency \		
,		
475.	PLT470	CFI
In a helicopter, drag	g is a force parallel to the	
A) relative wind and	d perpendicular to lift.	
B) angle of incidend	ce and perpendicular to lift.	
C) rotor blade plane	e of rotation due to coning angle.	
476.	PLT175	CFI
	1 = 1 1 1 0	U 1 1

_		iired than during powered flight in order to
•	anti-autorotative forces.	he reter to normal DDM
•	mic force vectors to accelerate the	
C) attain an airspe	eed that will enable the rotor syst	em to reach its equilibrium RPM.
477.	PLT470	CFI
The Vne of a helic	copter is limited by	
A) centrifugal twis	ting moment of the rotor blades.	
B) lateral controlla	ability or retreating blade stall.	
C) available horse	epower of the engine which may l	be converted to torque.
478.	PLT470	CFI
The tendency of a	a helicopter to drift in the direction	of tail rotor thrust during a hover is called
A) Coriolis force.		
B) translating tend	dency.	
C) transverse flow	r effect.	
479.	PLT242	CFI
Effective translation	onal lift is that point during helico	pter flight when
A) hovering flight	may be maintained.	
B) additional lift is	obtained from increased airflow	through the rotor disc.
C) the increased (groundspeed provides additional	performance required to transition from a hover.
480.	PLT470	CFI
•		ed away from the vertical position by arily for the purpose of counteracting
A) yaw.		
B) drift.		
C) torque.		
481.	PLT123	CFI
How does temper	ature and weight affect the Vne o	of a helicopter?
A) Vne increases	as temperature and weight incre	ase.
B) Vne decreases	as temperature and weight incre	ease.
C) Vne decreases	as temperature increases and w	veight decreases.
482.	PLT035	CFI
As altitude increas	ses, the VNE of most helicopters	

A) increases.		
B) decreases.		
C) remains the s	ame.	
483.	PLT343	CFI
Excessively high	engine temperatures, either in the	e air or on the ground, will
A) increase fuel	consumption and may increase po	ower due to the increased heat.
B) result in dama	age to heat-conducting hoses and	warping of cylinder cooling fans.
C) cause loss of damage.	power, excessive oil consumption	, and possible permanent internal engine
484.	PLT115	CFI
Detonation in an	aircraft engine is most likely to oc	cur whenever the
A) fuel/air ratio is	s such that the mixture burns extre	mely slow.
B) engine is ope	rated under conditions which caus	e the fuel mixture to burn instantaneously.
C) fuel being use	ed is of a higher grade than recom	mended by the engine manufacturer.
485.	PLT472	CFI
A high-frequency	y vibration in flight would most likel	y indicate potential trouble with
A) the balance o	f the main rotor blades.	
B) a piston engir	ne malfunction.	
C) worn parts in	the main rotor system.	
486.	PLT470	CFI
Can the tail rotor	r produce thrust to the left?	
A) No; only thrus	st to the right can be produced, cau	using tail movement to the left.
B) Yes; primarily	so that hovering turns can be acc	omplished to the right.
C) Yes; primarily	to counteract drag of the transmis	ssion during autorotation.
487.	PLT471	CFI
What is the prima	ary purpose of the freewheeling ur	nit?
A) It allows the e	engine to be started without driving	the main rotor system.
		ne rotor system for autorotation purposes. , main rotor system, and tail rotor system.
488.	PLT125	CFI
•	itorotative descent and landing, ad tial collective pitch is applied. This	Iditional right pedal is required to maintain action is necessary because of

A) gyroscopic pre	ecession.	
B) the reduction i	in rotor RPM.	
C) translating ter	ndency of helicopters during a	utorotation.
489.	PLT470	CFI
When performing	g a touchdown autorotation, w	hat action is most appropriate?
A) Anti-torque pe	edals should remain neutral at	ter ground contact.
B) Skids should b	oe in a longitudinally level atti	tude at touchdown.
C) Aft cyclic appl	ication after touchdown is des	sirable to decrease ground run.
490.	PLT264	CFI
The addition of p	ower in a settling-with-power	situation produces an
A) increase of air	speed.	
B) even greater r	rate of descent.	
C) increase in cy	clic control effectiveness.	
491.	PLT208	CFI
What action shou	uld be taken if the antitorque s	system fails during forward flight?
A) Immediately a	pply additional throttle while s	slightly lowering the collective.
B) Enter a norma	al autorotation by lowering the	collective and rolling off the throttle.
C) Immediately a	and smoothly apply aft cyclic.	
492.	PLT336	CFI
When making a s	slope landing, the cyclic pitch	control should be used to
A) lower the dow	nslope skid to the ground.	
B) hold the upslo	pe skid against the slope.	
C) place the roto	r disc parallel to the slope.	
493.	PLT170	CFI
During a pinnacle pilot should make		ort under conditions of turbulence and high wind, the
A) shallow appro	ach, maintaining a constant li	ne of descent with cyclic applications.
B) normal approa	ach, maintaining a slower-tha	n-normal rate of descent with cyclic applications.
C) steeper-than-ı applications.	normal approach, maintaining	the desired angle of descent with collective
494.	PLT217	CFI
Which statement	pertaining to rapid decelerati	ons is most accurate?

A) The primary p	ourpose of this maneuver is to	lose effective translational lift.
B) The rotor RPN completion of the	•	e during the entry and tend to decrease during the
•	he helicopter will normally tend the completion of the maneuv	d to yaw to the right during the entry and tend to yaw er.
495.	PLT470	CFI
A) Low-frequenc B) High-frequenc	y vibration, pitchup of the nose by vibration, pitchdown of the r	retreating blade stall situation, in order of occurrence? e, and a tendency for the aircraft to roll. nose, and a tendency for the aircraft to roll. bration, and a tendency for the aircraft to roll.
496.	PLT486	CFI
•	in a crosswind, which described to the control of t	·
B) Heading is ma with pedals.	aintained with cyclic; direction	of movement (groundpath or track) is maintained
C) Heading is ma with cyclic.	aintained with pedals; directior	n of movement (groundpath or track) is maintained
497.	PLT448	CFI
A recreational pilot has	lot with less than 400 hours' fli	ght time may not act as pilot in command unless the
A) logged pilot-in	n-command time in the last 90	days.
B) logged pilot-in	n-command time in the last 180	0 days.
C) received flight beyond 50 miles		who certifies the pilot is competent to conduct flights
498.	PLT409	CFI
•	s required for a Private Pilot C 40 hours, 19 hours of which r	Certificate with a helicopter rating? must be in helicopters.
·	40 hours in helicopters with a	
C) A minimum of	f 40 hours including at least 15	5 hours of flight training in helicopters.
499.	PLT407	CFI
An applicant who least how old?	o is seeking a Student Pilot Ce	ertificate limited to helicopters is required to be at
A) 16 years.		
B) 17 years.		

C) 18 years.		
500.	PLT430	CFI
A helicopter may other aircraft if	be operated at less than the min	imum safe altitudes prescribed by regulations for
A) the operation is	s conducted without hazard to pe	ersons or property.
B) an altitude of a	at least 500 feet is maintained over	er other than congested areas.
C) at least 500 fee	et is maintained above the highe	st obstacle within a radius of 1,000 feet.
501.	PLT467	CFI
Which is required special VFR?	to operate a helicopter within Cla	ass E airspace between sunset and sunrise under
A) The pilot must	possess an instrument rating and	d have satisfied currency requirements.
B) The helicopter	must be equipped for instrument	t flight and the visibility must be at least 1 mile.
C) The helicopter other traffic or obs		at allows the pilot the opportunity to see and avoid
502.	PLT112	CFI
To taxi on the sur	face in a safe efficient manner, o	one should use the cyclic pitch to
A) control taxi spe	ed.	
B) maintain headi	ing during crosswind conditions.	
C) correct for drift	during crosswind conditions.	
503.	PLT268	CFI
Which situation w	ould require the highest power s	etting to hover?
A) Headed downw	wind in moderate windspeeds.	
B) Headed crossv	wind in moderate windspeeds.	
C) Over tall grass	in zero wind conditions.	
504.	PLT438	CFI
What precautions	should be taken with respect to	aircraft oxygen systems?
A) Ensure that on	ly medical oxygen has been use	d to replenish oxygen containers.
B) Prohibit smokin	ng while in an aircraft equipped w	vith a portable oxygen system.
C) Ensure that inc	dustrial oxygen has not been use	ed to replenish the system.
505.	PLT475	CFI
A squall line is us	ually associated with a	
A) stationary front	t.	
B) fast-moving co	ld front.	

C) fast-moving w	varm front.	
506.	PLT180	CFI
What causes fals	se lift which sometimes occurs du	uring a balloon launch?
A) Venturi effect	of wind on the envelope.	
B) Closing the m	naneuvering vent too rapidly.	
C) Excessive ter	mperature within the envelope.	
507.	PLT177	CFI
Which will impro	ve the response time of a hot air	balloon?
A) Increased we	ight.	
B) Less-dense a	mbient air.	
C) Increased fue	el flow through burner.	
508.	PLT253	CFI
Why should met	hanol be added to propane fuel?	
A) Helps detect	leaks in the fuel system.	
B) Helps preven	t moisture from forming in the fue	l system.
C) Increases pre	essure and boiling temperature fo	r operations in colder climates.
509.	PLT254	CFI
Prior to balloon f	light on a cold, winter day, it may	be necessary to preheat propane tanks because
A) ice may have	formed in the lines to the burners	3.
B) the temperatu	re of liquid propane controls burn	ner pressure during combustion.
C) propane need	ds to be at a temperature which w	vill allow it to go from a liquid to a gaseous state.
510.	PLT251	CFI
Propane is used	in a balloon fuel system because	e it
A) is slow to vap	orize.	
B) provides natu	ral pressure for fuel movement.	
C) contains meth	nanol for clean burning and impro	oved performance.
511.	PLT251	CFI
What is the weig	ht of propane?	
A) 4.2 pounds pe	er gallon.	
B) 6.0 pounds pe	er gallon.	
C) 7.5 pounds p	er gallon.	

512.	PLT254	CFI
The valve located on eac	h tank that indicates the tank is filled to 80 per	cent capacity is the
A) main tank valve.		
B) vapor-bleed valve.		
C) fuel pressure valve.		
513.	PLT253	CFI
Burner efficiency of a hot above MSL?	air balloon decreases approximately what per	cent for each 1,000 feet
A) 4 percent.		
B) 8 percent.		
C) 15 percent.		
514.	PLT343	CFI
	r relighting the burner while in flight?	
•	all open and light the pilot light.	
, .	ve, open the blast valve, and light the main jet	using reduced flow
	vent the fuel lines, reopen the tank valves, ar	-
,	, ,	3 1 3
515.	PLT113	CFI
What is a potential hazard	d in a balloon during a climb that exceeds max	kimum rate?
A) Envelope may collapse	э.	
B) Deflation port may be t	forced open.	
C) Rapid flow of air may e	extinguish the burner and pilot light.	
516.	PLT177	CFI
	onomy in level flight can be accomplished by	
A) evenly-spaced, short b	-	
B) long blasts of heat, spa		
,	and remaining at a constant temperature.	
, 6 1,	·	
517.	PLT208	CFI
What action is most appro A) Land as soon as pract	opriate when an envelope over-temperature coicable.	ondition occurs?
B) Descend and allow en	velope to cool before landing.	
	equipment overboard in order to lighten the l	oad.
	DI Too	
518.	PLT208	CFI

If powerlines bed	come a factor during a balloon flig	nt, a pilot should know that
A) it is safer to co	ontact the lines than chance rippir	ng.
B) contact with p	owerlines creates no great hazard	d for a balloon.
C) it is better to c	chance ripping at 25 feet above th	e ground than contacting powerlines.
- 40	DI TAOA	051
519.	PLT184	CFI
<u>-</u>	s such that it is necessary to deflance the spensory to deflation port be opened	te the envelope as rapidly as possible during a l?
A) Just prior to g	round contact.	
B) The instant the	e basket contacts the surface.	
C) As the balloor	n skips off the surface the first time	e and all ballast has been discharged.
520.	PLT184	CFI
Prior to a high-wi	ind landing in a balloon, occupant	s should be briefed to
A) kneel on the fl	loor, face aft, and hang on to the	pasket.
B) crouch in bask	ket, face direction of landing, hold	on in two places, and stay in basket.
C) crouch on the made.	floor in the center of the basket a	nd jump out as soon as initial ground contact is
521.	PLT373	CFI
What should a pi	lot do if a small hole is seen in the	e fabric of a balloon during inflation?
A) Continue the i	inflation and make a mental note	of the location of the hole for later repair.
B) Instruct a grouinflation.	und crew member to inspect the h	ole and, if under 5 inches in length, continue the
C) Consult the fli for the balloon be	•	e is within acceptable damage limits established
522.	PLT254	CFI
All fuel tanks sho	ould be fired during preflight to det	ermine
A) if there are an	y leaks in the tanks.	
B) burner pressu	re and condition of the valves.	
C) if the pilot ligh	t functions properly on each tank.	
523.	PLT183	CFI
How should a rou	undout from a moderate-rate asce	ent to level flight be made?
A) Vent at altitud	e and add heat upon settling bacl	down to altitude.
B) Reduce the ar	mount of heat gradually as the ba	lloon approaches altitude.
C) Cool the enve	lope by venting and add heat just	before arriving at the desired altitude.

524.	PLT313	CFI
What constitutes the p	payload of a balloon?	
A) Weight of the ballo	•	
,	sengers, cargo, and fuel.	
,		num certified gross weight.
,	- p - g	3
525.	PLT179	CFI
The part of a balloon t	hat bears the weight of the	e balloon and its payload is the
A) load tapes.		
B) load cables.		
C) envelope material.		
526.	PLT153	CFI
		perheat amounts to approximately
A) 1 percent of net lift.	•	ретиван антовино во врргоминалогу
B) 1 percent of static I		
C) 2 percent of gross		
o) 2 percent of groos		
527.	PLT030	CFI
The difference between	en the weight of the air be	ing displaced and the weight of the lifting gas is
A) gross lift.		
B) useful lift.		
C) design lift.		
528.	PLT153	CFI
During flight in an airs	hip, vertical equilibrium is	established when
A) pressure height is r	reached.	
B) buoyancy equals a	irship weight.	
C) buoyancy is greate	r than airship weight.	
529.	PLT153	CFI
An airship will float in	the air when buoyant forc	е
•	•	en propeller thrust and airship drag.
		t and the weight of the volume of air being displaced.
		reight and the weight of the air volume being
displaced.	· · · · · · · · · · · · · · · · · · ·	
530.	PLT170	CFI

• •	reigh-off prior to landing, will be very	ard to overcome a climbing tendency and nose heavy. This condition can be
A) ballasting air aft.		
B) discharging forwa	ard ballast.	
C) dumping fuel fron	n the forward tanks.	
531.	PLT153	CFI
An airship with a sm A) greater nose pres	all fineness ratio has a hull form that sures.	will introduce
B) lower pressure va	ariations from nose to tail.	
C) more frictional dra	ag due to the plump shape of the hull	
532.	PLT160	CFI
When an airship is a maintained by valvin	t pressure height and superheat incr	eases, constant pressure must be
A) gas from the enve	elope.	
B) air from the envel	ope.	
C) air from the ballor	nets.	
533.	PLT153	CFI
What action is requir during a weigh-off?	red to dynamically trim an airship tha	t is in even static trim and equilibrium
A) Transfer air aft.		
B) Increase airspeed	1	
C) Transfer air forwa		
534.	PLT153	CFI
	ring flight characteristics and controlla	
A) lift and drag.		
B) static and dynami	ic trim.	
•	atmospheric density.	
, , , , , , , , , , , , , , , , , , , ,		
535.	PLT154	CFI
The purpose of a gro A) available lift.	ound weigh-off for an airship is to det	ermine
B) static and/or trim	condition.	
C) trim angle necess	sary to make an up-ship takeoff.	

536.	PLT158	CFI
How does an a	irship pilot know when pressure he	eight has been reached?
A) Liquid in the	gas and air manometers will rise	above normal levels.
B) Liquid in the levels.	gas manometer will rise and liquid	d in the air manometer(s) will fall below normal
C) Liquid in the levels.	gas manometer will fall and liquid	I in the air manometer(s) will rise above normal
537.	PLT157	CFI
Dampers shoul system would	d normally be kept closed during a	a climb to altitude because any air blown into the
A) decrease the	e volume of gas within the envelop	oe.
B) increase the	amount of air to be valved, result	ing in a slower rate of ascent.
C) increase the	amount of gas to be valved, prev	enting the airship from ascending too fast.
538.	PLT208	CFI
What is one inc	lication of a serious envelope rip i	n an airship?
A) Drop in air p	ressure.	
B) Increase in g	gas pressure.	
C) Difficulty in o	controlling altitude.	
539.	PLT208	CFI
If all engine pov	wer is lost during flight, an airship	should be
A) brought to a	condition of equilibrium as soon a	s possible and free-ballooned.
B) trimmed nos landing site.	e-heavy to use the airship's negat	tive dynamic lift to fly the airship down to the
C) trimmed nos descent to the I		e dynamic lift to control the angle and rate of
540.	PLT221	CFI
To land an airsl made with the a		n the wind is calm, a wheel landing should be
A) in trim.		
B) tail heavy, up	p to 5°.	
C) approximate	ly 5° nose heavy.	
541.	PLT304	CFI
•	g an airship with the ballonet air valld not be engaged with either aft o	alves in the automatic forward position, the aft damper open because
C) approximate 541. When operating	PLT304 g an airship with the ballonet air va	alves in the automatic forward position, the aft

A) ballonet over-inflation and rupture could occur.		
B) the airship will enter an excessive nose-high attitude.		
C) envelope pressure will increase, causing possible damage to the air lines.		
542.	PLT221	CFI

Which takeoff procedure is considered to be most hazardous for an airship?

- A) Not using an up-ship takeoff when the airship is more than 200 pounds heavy.
- B) Maintaining 50 percent of the maximum permissible positive angle of inclination.
- C) Maintaining a negative angle of inclination during a wheel takeoff after elevator response is adequate for controllability.

543. PLT125 CFI

Which action is necessary in order to perform a normal descent in an airship?

- A) Valve gas from the envelope.
- B) Take air into the aft ballonet.
- C) Valve air from the forward ballonet.