08/07/2008

Bank: (Commercial Pilot)

Airman Knowledge Test Question Bank

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1. PLT310 COM

Load factor is the lift generated by the wings of an aircraft at any given time

- A) divided by the total weight of the aircraft.
- B) multiplied by the total weight of the aircraft.
- C) divided by the basic empty weight of the aircraft.

2. PLT312 COM

(Refer to figure 5.) The vertical line from point D to point G is represented on the airspeed indicator by the maximum speed limit of the

- A) green arc.
- B) yellow arc.
- C) white arc.

3. PLT242 COM

Lift on a wing is most properly defined as the

- A) force acting perpendicular to the relative wind.
- B) differential pressure acting perpendicular to the chord of the wing.
- C) reduced pressure resulting from a laminar flow over the upper camber of an airfoil, which acts perpendicular to the mean camber.

4. PLT351 COM

What performance is characteristic of flight at maximum lift/drag ratio in a propeller-driven airplane? Maximum

- A) gain in altitude over a given distance.
- B) range and maximum distance glide.
- C) coefficient of lift and minimum coefficient of drag.

5. PLT240 COM

Recovery from a stall in any airplane becomes more difficult when its

A) cente	r of gravity moves forwa	nrd.	
B) eleva	tor trim is adjusted nose	edown.	
C) cente	er of gravity moves aft.		
0	DI T400	0014	
6. - 1	PLT120	COM	
		ow VA is brought about by the following w	eatner pnenomenon:
	•	creases the indicated stall speed.	
•		increase in stall speed.	
C) Turbi	ulence which causes a	ecrease in stall speed.	
7.		PLT008	COM
(Refer to	figure 35.)		
GIVEN:			
Tempera	ature	85 °F	
Pressure	e altitude	6,000 ft	
Weight		2,800 lb	
Headwir	nd	14 kts	
Determi	ne the approximate gro	ınd roll.	
A) 742 f	eet.		
B) 1,280	feet.		
C) 1,480) feet.		
8.	PLT002	СОМ	
		rrect statement regarding stall speeds. Th	ne airplane will stall
•	,	n, 60° bank, with gear and flaps up, than v	•
-	•	, flaps-up, 60° bank, than in a power-off, fl	•
configur	•		, ,
C) 10 kn	ots higher in a 45° ban	x, power-on stall, than in a wings-level stal	ll with flaps up.
9.	PLT105	СОМ	
	true regarding the use conditions?	of airborne weather-avoidance radar for th	ne recognition of certain
A) The r	adar scope provides no	assurance of avoiding instrument weathe	r conditions.
B) The a	voidance of hail is assu	red when flying between and just clear of	the most intense echoes.
•	clear area between inter led when flying betweer	se echoes indicates that visual sighting of the echoes.	f storms can be

COM

PLT305

10.

Which is true reg	arding the use of flaps during level turns?	
A) The lowering o	of flaps increases the stall speed.	
B) The raising of	flaps increases the stall speed.	
C) Raising flaps v	will require added forward pressure on the yo	ke or stick.
11.	PLT088	COM
	would a pilot be unable to identify by the color	
A) The never-exc		
B) The power-off	·	
C) The maneuve	·	
12.	PLT166	СОМ
To determine pre	essure altitude prior to takeoff, the altimeter sh	nould be set to
A) the current alti	imeter setting.	
B) 29.92 inches I	Ig and the altimeter indication noted.	
C) the field eleva	tion and the pressure reading in the altimeter	setting window noted.
13.	PLT136	COM
• • •	n cold weather, crankcase breather lines shou ible to being clogged by	uld receive special attention because
A) congealed oil	from the crankcase.	
B) moisture from	the outside air which has frozen.	
C) ice from crank	case vapors that have condensed and subse	equently frozen.
14.	PLT126	СОМ
If necessary to ta minimized by	tke off from a slushy runway, the freezing of la	anding gear mechanisms can be
A) recycling the g	gear.	
B) delaying gear	retraction.	
C) increasing the	airspeed to VLE before retraction.	
15.	PLT343	COM
The mixture cont	rol can be adjusted, which	
A) prevents the fo	uel/air combination from becoming too rich at	higher altitudes.
B) regulates the a	amount of air flow through the carburetor's ve	nturi.
C) prevents the fo	uel/air combination from becoming lean as the	e airplane climbs.
16.	PLT343	СОМ

Fouling of spa	ork plugs is more apt to occur if	the aircraft
A) gains altitue	de with no mixture adjustment.	
B) descends f	rom altitude with no mixture adj	ustment.
C) throttle is a	dvanced very abruptly.	
17.	PLT350	COM
•		ellers and normally-aspirated engines, which due stress on the engine components? When power
A) decreased,	reduce the RPM before reducing	ng the manifold pressure.
B) increased,	increase the RPM before increa	asing the manifold pressure.
C) increased of	or decreased, the RPM should b	be adjusted before the manifold pressure.
18.	PLT350	COM
Which stateme	ent best describes the operating	g principle of a constant-speed propeller?
•	setting is changed by the pilot, t ain unchanged.	the prop governor causes pitch angle of the propeller
B) A high blad for takeoffs.	le angle, or increased pitch, red	uces the propeller drag and allows more engine power
C) The propel	ler control regulates the engine	RPM, and in turn, the propeller RPM.
19.	PLT140	COM
What is the m clearance?	inimum visibility and ceiling requ	uired for a pilot to receive a 'land and hold short'
A) 3 nautical r	niles and 1,000 feet.	
B) 3 statute m	iles and 1,000 feet.	
C) 3 statute m	niles and 1,500 feet.	
20.	PLT141	COM
(Refer to figure	e 60.) Sign "1" is an indication	
A) of an area	where aircraft are prohibited.	
B) that the tax	iway does not continue.	
C) of the gene	eral taxiing direction to a taxiway	<i>1</i> .
21.	PLT040	COM
(Refer to figure	e 52, point 9) The alert area de	picted within the blue lines is an area in which
	igh volume of pilot training actividus to aircraft.	vities or an unusual type of aerial activity, neither of
	aircraft is prohibited.	
, 3	•	

C) the flight of airc	craft, while not prohibited, is subject to restrict	tion.
22.	PLT194	COM
	ty of a VOR which is being used for navigation and right turns to scan for other traffic.	n on VFR flights, it is important to
B) exercise sustai directions.	ned vigilance to avoid aircraft that may be co	nverging on the VOR from other
C) pass the VOR of direction on the sa	on the right side of the radial to allow room fo ame radial.	r aircraft flying in the opposite
23.	PLT208	COM
A) turning off all ell B) selecting a land	r an emergency landing at night, one of the plectrical switches to save battery power for the ding area close to public access, if possible. If flaps to ensure a nose-high landing attitude	e landing.
24.	PLT509	COM
During a takeoff m wingtip vortices by	nade behind a departing large jet airplane, the	e pilot can minimize the hazard of
	prior to reaching the jet's flightpath until able	to turn clear of its wake.
	ra speed on takeoff and climbout. akeoff roll and not rotating until well beyond t	he jet's rotation point.
25.	PLT482	COM
	y the instructor during a lesson can have which the which need emphasis.	ch of these results?
	ote response from students.	
C) It permits the ir	ntroduction of new material which was not cover	vered previously.
26.	PLT491	COM
A) student's backo B) objectives and	ent performance and accomplishment during ground and past experiences. goals that were established in the lesson plants.	n.
C) student's actua	I performance as compared to an arbitrary st	andard.
27.	PLT488	COM
n a 'guided discus A) 'why' 3) 'when'	ssion,' lead-off questions should usually begin	n with

C) 'where'		
28.	PLT103	COM
these dangerou A) Deficiencies	us tendencies or behave in instrument skills and ire, get-there-itis, loss o	ous tendencies or behavior problems at some time. Some of rior patterns which must be identified and eliminated include: d knowledge of aircraft systems or limitations. of positional or situation awareness, and operating without
•		nan factors such as, fatigue, illness or emotional problems.
29.	PLT022	COM
		sion Making (ADM) process involves
		is attitude inventory test.
,	ng the drive to have the	•
•	•	nd experience during training.
o) obtaining pr	oper mgm mendelen d	The experience during training.
30.	PLT104	COM
		s from a cloud to find himself within 300 feet of a helicopter. st illustrates the 'MACHO' reaction?
A) He is not too	o concerned; everything	g will be alright.
B) He flies a litt	tle closer, just to show	him.
C) He quickly t	urns away and dives, to	avoid collision.
31.	PLT272	COM
To help manag	je cockpit stress, pilots	must
	•	hink rationally when stress appears.
•		at are similar to those in flying.
•		neir abilities to handle cockpit responsibilities.
32.	PLT503	COM
Which is true re	egarding the presence	of alcohol within the human body?
A) A small amo	ount of alcohol increase	es vision acuity.
B) An increase	in altitude decreases t	he adverse effect of alcohol.
C) Judgment a alcohol.	nd decision-making ab	ilities can be adversely affected by even small amounts of
33.	PLT096	COM
	result of which of these	
• •	xygen in the bloodstrea	

B) Insufficie	nt oxygen reaching the brain.		
C) Excessive	e carbon dioxide in the bloods	stream.	
34.	PLT083	COM	
(Refer to figure)	ure 30.) What minimum naviga	ation equipment is required to compl	lete the VOR/DME-A
A) One VOF	R receiver.		
B) One VOF	R receiver and DME.		
C) Two VOF	R receivers and DME.		
35.	PLT170	COM	
Pilots are no	ot authorized to land an aircraf	t from an instrument approach unles	ss the
A) flight visik	bility is at, or exceeds the visib	oility prescribed in the approach proc	edure being used.
B) flight visit used.	bility and ceiling are at, or exce	eeds the minimums prescribed in the	e approach being
C) visual ap	proach slope indicator and rur	nway references are distincly visible	to the pilot.
36.	PLT293	COM	
Which is true	e regarding the use of a Instru	iment Departure Procedure (DP) cha	art?
		blished, DP usage is mandatory for	
-		least the textual description of the a	-
C) To use a departure.	DP, the pilot must possess bo	oth the textual and graphic form of th	ne approved standard
37.	PLT224	COM	
-	rations off established airways vigational aids which are no m	s, ROUTE OF FLIGHT portion of an ore than	IFR flight plan should
A) 40 miles	apart.		
B) 70 miles	apart.		
C) 80 miles	apart.		
38.		PLT012	COM
GIVEN:			
True course		105°	
True headin	g	085°	
True airspee	ed	95 kts	
Groundspee	ed	87 kts	
Determine the	he wind direction and speed.		

A) 020° and 32	knots.	
B) 030° and 38	knots.	
C) 200° and 32	knots.	
39.	PLT064	COM
	easurements on a Sectiona the course because the	Aeronautical Chart should be made at a meridian near
A) values of iso	ogonic lines change from po	int to point.
B) angles forme	ed by isogonic lines and line	es of latitude vary from point to point.
C) angles forme	ed by lines of longitude and	the course line vary from point to point.
40.	PLT101	COM
(Refer to figure	52, point 6) Mosier Airport	is
A) an airport re	stricted to use by private ar	nd recreational pilots.
B) a restricted r	military stage field within res	stricted airspace.
C) a nonpublic	use airport.	
41.	PLT064	COM
•	• •	he obstruction approximately 8 NM east southeast of the higher than the airport elevation?
A) 376 feet.		
B) 835 feet.		
C) 1,135 feet.		
42.	PLT014	COM
	ed to a radiobeacon. If the letic bearing TO that radiob	magnetic heading is 040° and the relative bearing is eacon would be
A) 150°.		
B) 285°.		
C) 330°.		
43.	PLT014	COM
If the relative be station would be		o 100° in 2.5 minutes of elapsed time, the time to the
A) 12 minutes.		
B) 15 minutes.		
C) 18 minutes.		
44.	PLT322	COM

`	20.) Using instrument group 3, if the a ht ahead, it will intercept which radial?	ircraft makes a 180° turn to the left and
45.	PLT064	COM
navigation equip	oment is required to identify ANGOO i	TAC to BTG VORTAC, what minimum ntersection?
A) One VOR red		
C) Two VOR red	ceiver and DME.	
46.	PLT463	СОМ
A pilot convicted written report to	_	alcohol or drugs is required to provide a
A) nearest FAA	Flight Standards District Office (FSDC)) within 60 days after such action.
B) FAA Civil Ae	romedical Institute (CAMI) within 60 d	ays after the conviction.
C) FAA Civil Av	iation Security Division (AMC-700) wit	hin 60 days after such action.
47.	PLT446	COM
	cumulative time that an emergency locattery must be recharged is	ator transmitter may be operated before the
48.	PLT405	COM
A) Flashlight wit B) An electric la	ed equipment for powered aircraft duri th red lens, if the flight is for hire. nding light, if the flight is for hire. meter adjustable for barometric press	
49.	PLT374	COM
Assuring compli	ance with an Airworthiness Directive i	s the responsibility of the
A) pilot in comm B) pilot in comm	nand and the FAA certificated mechan nand of that aircraft. erator of that aircraft.	•

50.	PLT041	COM
What altimeter se	etting is required when operating an aircraft a	at 18,000 feet MSL?
A) Current report	ed altimeter setting of a station along the rou	ite.
B) Altimeter settii	ng at the departure or destination airport.	
C) 29.92 Inches I	Hg.	
51.	PLT414	COM
A pilot flying a sir Which pilot shoul	ngle-engine airplane observes a multiengine d give way?	airplane approaching from the left.
A) Each pilot sho	uld alter course to the right.	
B) The pilot of the	e single-engine airplane should give way; the	e other airplane is to the left.
C) The pilot of the	e multiengine airplane should give way; the s	single-engine airplane is to its right.
52.	PLT377	COM
When should not	ification of an aircraft accident be made to th	
damage and no i A) Immediately.	rijuries :	
3) Within 10 days		
C) Within 30 days		
_,		
53.	PLT475	COM
What wind condit	tions would you anticipate when squalls are r	reported at your destination?
A) Rapid variation	ns in windspeed of 15 knots or more betwee	n peaks and lulls.
,	at least 35 knots combined with a change in	
C) Sudden increa at least 1 minute.	ases in windspeed of at least 16 knots to a su	ustained speed of 22 knots or more for
at least 1 minute.		
54.	PLT283	СОМ
What flight plann	ing information can a pilot derive from Const	ant Pressure Analysis Charts?
A) Winds and ten	nperatures aloft.	
B) Clear air turbu	llence and icing conditions.	
C) Frontal systen	ns and obstructions to vision aloft.	
55.	PLT068	СОМ
•	enomenon is implied within an area enclose	d by small scalloped lines on a U.S.
•	ds, light to moderate turbulence, and icing.	
	s clouds, icing, and moderate or greater turb	ulence.
C) Cumuliform or	standing lenticular clouds, moderate to seve	ere turbulence, and icing.

56.	PLT287	COM
Dashed lines o	n a Surface Analysis Cha	art, if depicted, indicate that the pressure gradient is
A) weak.		
B) strong.		
C) unstable.		
57.	PLT287	СОМ
	ovides a ready means of	locating observed frontal positions and pressure centers?
A) Surface Ana	•	
,	essure Analysis Chart.	
C) Weather De	•	
58.	PLT289	СОМ
When total sky	cover is few or scattered	I, the height shown on the Weather Depiction Chart is the
A) top of the lov	west layer.	
B) base of the I	owest layer.	
C) base of the	highest layer.	
59.	PLT511	COM
A moist, unstab	ole air mass is characteria	zed by
A) poor visibility	y and smooth air.	
B) cumuliform of	clouds and showery prec	ipitation.
C) stratiform clo	ouds and continuous pre	cipitation.
60.	PLT192	COM
What is the apparent and the dewpoint		mulus clouds if the temperature at 2,000 feet MSL is 10 °C.
A) 3,000 feet M	ISL.	
B) 4,000 feet M	ISL.	
C) 6,000 feet M	ISL.	
61.	PLT192	СОМ
If clouds form a clouds will be	as a result of very stable,	moist air being forced to ascend a mountain slope, the
A) cirrus type w	vith no vertical developme	ent or turbulence.
B) cumulus typ	e with considerable vertic	cal development and turbulence.
C) stratus type	with little vertical develop	oment and little or no turbulence.

62.	PLT192	COM
What deternascend?	mines the structure or type o	of clouds which will form as a result of air being forced to
A) The met	hod by which the air is lifted	
B) The stab	oility of the air before lifting o	ccurs.
C) The rela	tive humidity of the air after	lifting occurs.
63.	PLT059	COM
Refer to the	e excerpt from the following I	METAR report:
KTUS 0800	4KT 4SM HZ 26/04 A2995 I	RMK RAE36
At approxin expected?	nately what altitude AGL sho	ould bases of convective-type cumuliform clouds be
A) 4,400 fe	et.	
B) 8,800 fee	et.	
C) 17,600 f	eet.	
64.	PLT192	COM
Which cloud	d types would indicate conve	ective turbulence?
A) Cirrus cl	ouds.	
B) Nimbost	ratus clouds.	
C) Towering	g cumulus clouds.	
65.	PLT263	COM
	og has drifted over a coasta stratus clouds?	l airport during the day. What may tend to dissipate or lift this
A) Nighttim	•	
B) Surface		
C) Wind 15	knots or stronger.	
66.	PLT226	COM
A situation	most conducive to the forma	tion of advection fog is
A) a light br	eeze moving colder air over	a water surface.
B) an air ma	ass moving inland from the o	coastline during the winter.
C) a warm,	moist air mass settling over	a cool surface under no-wind conditions.
67.	PLT226	COM
In what way	s do advection fog, radiation	n fog, and steam fog differ in their formation or location?
-	n fog is restricted to land are orms over a water surface.	eas; advection fog is most common along coastal areas;

or very
d air
has a

•	to air having a temperature of 0 °C or more. °F into air having a temperature of 32 °F or leading to the second se	SS.
	nd condensation. nd condensation.	COM
A) Freezing rain B) You are appro	PLT511 If ice pellets are encountered at 8,000 feet? at higher altitude. Deaching an area of thunderstorms. Sunter hail if you continue your flight.	COM
76. From which mea A) Atmospheric p B) The ambient l C) The dry adiab	apse rate.	COM etermined?
spread A) decreases as B) decreases as	PLT492 arding actual air temperature and dewpoint te the relative humidity decreases. the relative humidity increases. he relative humidity increases.	COM mperature spread? The temperature
78. What is the stand A) -5 °C. B) -15 °C. C) +5 °C.	PLT492 dard temperature at 10,000 feet?	COM
79. Every physical pr A) a heat exchan B) the movemen		COM result of

C) a pressure diffe	erential.	
A) Clear, cool nigl B) Area of unstab	PLT301 are favorable for the formation of a surface bants with calm or light wind. Ile air rapidly transferring heat from the surface cumulus clouds with smooth, level bases at the	e.
81.What minimum disfly between theseA) 20 miles.B) 30 miles.C) 40 miles.	PLT495 stance should exist between intense radar ec thunderstorms?	COM shoes before any attempt is made to
A) dust or haze at B) long streaks of	•	COM nes be visually identified in flight by
A) weaker and far B) stronger and far	PLT302 location of the jet stream is normally ther north in the summer. arther north in the winter. arther north in the summer.	COM
84. In the Northern He A) right by Coriolis B) right by surface C) left by Coriolis	e friction.	COM
A) CG is too far re B) CG is too far re	PLT240, normal recovery from spins may become difearward, and rotation is around the longituding earward, and rotation is around the CG. before the stall is fully developed.	

86.	PLT473	COM	
One advant	tage nylon rope has over i	manila rope is that it	
A) will not s	tretch.		
B) is nearly	three times as strong.		
C) does not	t tend to snap back if it bre	eaks.	
87.	PLT473	COM	
A pilot shou	ıld be aware that drag rop	es constructed of hemp or nylon	
A) should b	e a maximum of 100 feet	long and used only in gas balloons.	
B) can be c	onsidered safe because t	hey will not conduct electricity.	
C) can cond not clean ar	-	acting powerlines carrying 600 volts or	more current if they are
88.	PLT254	COM	
While in flig caused by	ht, ice begins forming on	the outside of the fuel tank in use. This	s would most likely be
A) water in	the fuel.		
B) a leak in	the fuel line.		
C) vaporize	d fuel instead of liquid fue	el being drawn from the tank into the m	nain burner.
89.		PLT040	COM
(Refer to fig	gure 52, point 2)		
GIVEN:			
Sacramento	Executive (SAC) tower r	eports wind 290 at 10 kts	
Highest ball	loon flight altitude	1,200 MSL	
	rt for a 2-hour balloon fligh equires of you?	nt from SAC airport (point 2), which res	sponse best describes
	htpath will require commu cramento Approach Contr	nications with Sacramento Executive ((SAC) control tower and
B) You mus	st communicate with Sacra	amento Approach Control because yo	u will enter the Alert Area.
C) You will	have to contact Sacramer	nto Approach Control.	
90.	PLT183	COM	
To perform	a normal descent in a gas	s balloon, it is necessary to release	
A) air.	C	•	
B) gas.			
C) ballast.			
•			

91.	PLT244	COM
Vertical co	ntrol of a gas balloon is accomplis	shed by
A) using th	e rip panel rope.	
B) valving	gas or releasing ballast.	
C) opening	and closing the appendix.	
92.	PLT221	СОМ
The weigh-	off procedure is useful because the	ne
A) pilot car	adjust the altimeter to the correc	t setting.
B) ground	crew can assure that downwind ol	bstacles are cleared.
C) pilot will	learn what the equilibrium condition	ions are prior to being committed to fly.
93.	PLT204	COM
Probably th	ne greatest single barrier to effecti	ve communication is the
A) use of ir	naccurate statements.	
B) use of a	bstractions by the communicator.	
C) lack of a	a common core of experience between	ween communicator and receiver.
94.	PLT204	COM
The effective degree of	veness of communication between	n the instructor and the student is measured by the
A) motivati	on manifested by the student.	
B) similarity	y between the idea transmitted an	d the idea received.
C) attention	n the student gives to the instructor	or during a lesson.
95.	PLT231	COM
When unde	er stress, normal individuals usual	ly react
A) with ma	rked changes in mood on differen	t lessons.
B) with ext	reme overcooperation, painstaking	g self-control, and laughing or singing.
C) by respo training.	onding rapidly and exactly, often a	automatically, within the limits of their experience and
96.	PLT232	СОМ
The overco	onfidence of fast learners should b	e corrected by
A) high pra	ise when no errors are made.	
B) raising t	he standard of performance for ea	ach lesson.
C) providin	g strong, negative evaluation at th	ne end of each lesson.

97.	PLT490	COM
What should a confidence?	an instructor do if a student	s slow progress is due to discouragement and lack of
A) Assign sub	goals which can be attained	d more easily than the normal learning goals.
B) Emphasize	the negative aspects of po	or performance by pointing out the serious consequences.
C) Raise the բ standards.	performance standards so the	ne student will gain satisfaction in meeting higher
98.	PLT227	COM
		is suspected of not fully understanding the principles nt can correctly perform the task?
A) Require the	e student to apply the same	elements to the performance of other tasks.
B) Require the	e student to repeat the task,	as necessary, until the principles are understood.
C) Repeat der	monstrating the task as nec	essary until the student understands the principles.
99.	PLT306	СОМ
	other blocks of learning is ca n.	becomes able to associate an element which has been alled the level of
100.	PLT490	COM
		eats should be avoided with all but the student who is
A) bored.	the form of represe and the	sale enedia se avelaca with all sat the stadent who le
B) discourage	ed.	
C) overconfide		
101.	PLT491	COM
In planning ar	ny instructional activity, the i	nstructor's first consideration should be to
	the overall objectives and s	
B) identify the	blocks of learning which m	ake up the overall objective.
C) establish c	ommon ground between the	e instructor and students.
102.	PLT489	COM
The KNOWN concepts by	to UNKNOWN pattern helps	s the instructor lead the student into new ideas and
A) anxieties a	nd insecurities.	
B) using some	ething the student already k	nows.

C) previously he	eld opinions, both valid and invali	d.	
	PLT295 become apathetic when they a objective toward which they a	COM	
•	goals that are difficult, but possi	•	
,	at their instructor is poorly prepar		
104.		PLT012	COM
(Refer to figure s	52, point 1)		
GIVEN:			
Departure point		Georgetown Airport (Q6	1)
Departure time		0637	
Winds aloft fored	cast (FD) at your altitude	1008	
At 0755, the ball	loon should be		
A) over Auburn	Airport (AUN).		
B) over the town	of Auburn.		
C) slightly west	of the town of Garden Valley.		
105.	PLT012	СОМ	
town of Newcas A) 082° at 6 kno		. , , , .	
B) 082° at 17 kn			
C) 262° at 11 kn	ots.		
106.	PLT220	СОМ	
Operation of a b lighted with	alloon, during the period of suns	et to sunrise, requires that it be	equipped and
A) red and gree	n position lights.		
B) a steady avia	tion white position light and a re	d or white anticollision light.	
C) approved avi	ation red and white lights.		
107.	PLT346	COM	
On a balloon eq	uipped with a blast valve, the bla	ast valve is used for	
A) climbs only.			
B) emergencies	only.		
C) control of altit	tude.		

108.	PLT253	СОМ	
The purpose of the preh	neating coil as used in hot air balloons is to)	
A) prevent ice from form	ning in the fuel lines.		
B) warm the fuel tanks f	or more efficient fuel flow.		
C) vaporize the fuel for	more efficient burner operation.		
109.	PLT253	COM	
•	ine burner BTU availability is the		
A) burner sound.			
B) tank quantity.			
C) fuel pressure gauge.			
110.	PLT130	COM	
Propane is preferred ov	er butane for fuel in hot air balloons becau	ise	
A) it has a higher boiling	g point.		
B) it has a lower boiling	point.		
C) butane is very explos	sive under pressure.		
111.	PLT251	COM	
For what reason is meth	nanol added to the propane fuel of hot air l	palloons?	
A) As a fire retardant.			
B) As an anti-icing addit	tive.		
C) To reduce the temper	erature.		
112.	PLT251	COM	
If ample fuel is available	e, within which temperature range will prop	ane fuel vaporize sufficiently to	
provide enough fuel pre	ssure for burner operation during flight?		
A) 0 °F to 30 °F.			
B) 10 °F to 30 °F.			
C) 30 °F to 90 °F.			
113.	PLT161	COM	
(Refer to figure 54, poin International Airport is	t 4) The thinner outer magenta circle depic	cted around San Francisco	
A) the outer segment of	Class B airspace.		
B) an area within which an appropriate transponder must be used from outside of the Class B			
airspace from the surface	ce to 10,000 feet MSL.		

•	eil boundary where a balloon may 8,000 feet MSL.	y penetrate without a transponder provided it
114.	PLT064	СОМ
•	re approaching Livermore Class I	Byron Airport (C83) with a northeast wind, you D airspace and flight visibility is approximately 2 1/2
A) contact Live	rmore ATCT on 119.65 and advis	se of your intentions.
B) stay below 1	,200 feet to remain in Class G.	
C) stay below 7	700 feet to remain in Class G and	I land.
115.	PLT208	СОМ
What action is	most appropriate when an envelo	ope overtemperature condition occurs?
A) Turn the ma	in burner OFF.	
B) Land as soo	n as practical.	
C) Throw all un	necessary equipment overboard	
116.	PLT251	COM
Which is the pre	oper way to detect a fuel leak?	
A) Sight.		
B) Use of smell	l and sound.	
C) Check fuel p	oressure gauge.	
117.	PLT251	СОМ
	ould be appropriate if a small leath have sufficient fuel to reach a suite.	k develops around the stem of the tank valve, and itable landing field?
	nk valve leak with your bare han	_
•	king tank handle to the full-open	
•	tank, then slowly reopen to resea	•
118.	PLT208	СОМ
To respond to a one should	a small leak around the stem of a	Rego blast valve in a single-burner system balloon,
A) turn off the f	uel system and make an immedi	ate landing.
B) continue operappears.	erating the blast valve making ve	ry small quick blasts until a good landing field
•	erating the blast valve, making lo	ng infrequent blasts and opening the handle slightly ears.

119.	PLT170	COM
Which precauti air is turbulent?		onted with the necessity of having to land when the
A) Land in the	center of the largest available fie	eld.
B) Throw propa	ane equipment overboard imme	diately prior to touchdown.
C) Land in the	trees to absorb shock forces, th	us cushioning the landing.
	_,	
120.	PLT221	COM
_	a balloon, what should the occupen the floor of the basket.	pant(s) do to minimize landing shock?
B) Stand back-	to-back and hold onto the load r	ing.
C) Stand with k	knees slightly bent facing the dir	ection of movement.
121.	PLT221	COM
	allowing the ground crew to lift	
•	to reduce stress on the envelope	
,	·	ding at an inopportune site just after lift-off.
•		when obstacles must be cleared shortly after lift-off.
C) considered	to be a good operating practice	when obstacles must be cleared shortly after int-on.
122.	PLT481	COM
The purpose of	f a critique is to	
A) identify only	the student's faults and weakne	esses.
B) give a delay	ed evaluation of the student's po	erformance.
C) provide dire	ction and guidance to raise the	level of the student's performance.
123.	PLT482	COM
For oral quizzir	ng to be effective during a lessor	n, a question should
A) center on or		
B) include a co	mbination of where, how, and w	rhy.
C) be easy for	the student at that particular sta	ge of training.
124.	PLT211	COM
A) yields consi	s said to be comprehensive whe	11 IL
, •	levels of difficulty.	
•	·	od
O) IIDGIAIIY SAII	nples whatever is being measure	zu.
125.	PLT204	COM

To communicate effec	ctively, instructors must	
A) utilize highly organi	zed notes.	
B) display an authorita	arian attitude.	
C) display a positive, o	confident attitude.	
126.	PLT233	COM
When students becom display which defense	ne so frustrated they no longer believe it pos mechanism?	ssible to work further, they usually
A) Aggression.		
B) Resignation.		
C) Rationalization.		
127.	PLT233	COM
A student who is dayd A) flight.	reaming is engaging in the defense mecha	nism known as
B) substitution.		
C) rationalization.		
,		
128.	PLT270	COM
	concentrate on learning, which of these hun	nan needs must be satisfied first?
A) Social needs.		
B) Safety needs.		
C) Physical needs.		
129.	PLT505	COM
Instructional aids used	d in the teaching/learning process should be	•
A) self-supporting and	should require no explanation.	
B) compatible with the	learning outcomes to be achieved.	
C) selected prior to de	eveloping and organizing the lesson plan.	
130.	PLT419	COM
Which of these instruc	ctor actions would more likely result in stude	ents becoming frustrated?
A) Presenting a topic	or maneuver in great detail.	
B) Covering up instruc	ctor mistakes or bluffing when the instructor	is in doubt.
C) Telling the students	s that their work is unsatisfactory without ex	planation.
131.	PLT232	COM
	ctor do with a student who assumes that co	
		·

A) Invent stude	ent deficiencies.	
B) Try to reduc	ce the student's overconfidence	9.
C) Raise the s	tandards of performance, dema	anding greater effort.
132.	PLT232	COM
Should an inst	ructor be concerned about an a	apt student who makes very few mistakes?
A) No. Some s	tudents have an innate, natura	ıl aptitude for flight.
B) Yes. The st	udent may assume that the co	rrection of errors is unimportant.
•	udent will lose confidence in th the student's performance.	e instructor if the instructor does not invent
133.	PLT229	COM
The profession	nal relationship between the ins	structor and the student should be based upon
A) the need to	disregard the student's person	al faults, interests, or problems.
B) setting the I	earning objectives very high so	that the student is continually challenged.
C) the mutual at the same object	•	e important to each other and both are working toward
134.	PLT229	COM
Which is true r	egarding professionalism as ar	n instructor?
A) Professiona	llism demands a code of ethics	3.
B) To achieve practices.	professionalism, actions and d	ecisions must be limited to standard patterns and
C) Professiona	alism does not require extended	d training and preparation.
135.	PLT491	COM
Which should I	be the first step in preparing a	lecture?
A) Organizing	the material.	
B) Researchin	g the subject.	
C) Establishin	g the objective and desired out	come.
136.	PLT481	COM
What is the protect		tructor should employ the four basic steps in the
A) Explanation	, demonstration, practice, and	evaluation.
, .	, trial and practice, evaluation,	
o) Freparation	, presentation, application, and	a review and evaluation.
137.	PLT103	COM

Hazardous attitudes which contribute to poor pilot judgment can be effectively counteracted by A) taking meaningful steps to be more assertive with attitudes. B) early recognition of hazardous thoughts. C) redirecting that hazardous attitude so that appropriate action can be taken.			
138.	PLT161	COM	
185° at 10 knots. If wind	at 5) A balloon drifts over the town of Brent d conditions remain the same, after 1 hour , must be above 2,900 feet MSL and must	30 minutes the pilot	
	600 feet MSL for national security reasons		
	, must be above 2,900 feet MSL.		
139.	PLT064	COM	
hour and 30 minutes in obstruction clearance d	at 4) A balloon departs Mendota Airport (Q a wind of 230° at 10 knots. What maximul uring the next 1 1/2 hours of flight?	·	
A) 1,600 feet MSL.			
B) 3,200 feet MSL. C) 9,400 feet MSL.			
140.	PLT041	COM	
southwesterly toward th setting upon launch, wh above its top? A) 510 feet MSL. B) 813 feet MSL.	et 5) A balloon is launched at University Ai the depicted obstruction. If the altimeter wa that should it indicate if the balloon is to clear	s set to the current altimeter	
C) 881 feet MSL.			
141.	PLT101	COM	
(Refer to figure 53, poin wind of 8 knots, you	t 4) While drifting above the Mendota Airp	oort (Q84) with a northwesterly	
A) are required to conta	ct ATC on frequency 122.9 Mhz.		
,	r than 2,000 feet AGL until you are at leas gh Airport (Q49) in approximately 1 hour.	t 8 NM southeast of that airport.	
142.	PLT448	COM	
A person who makes apballoon with an airborne	oplication for a commercial pilot certificate heater, will be		

A) authorized I	both airborne heater or gas balloo	n.
B) limited to ba	alloon, with an airborne heater.	
C) authorized to balloon.	to conduct ground and flight training	ng in a balloon with an airborne heater or gas
143.	PLT294	COM
What single re expected to oc		rding a volcanic eruption, that is occurring or
A) In-Flight We	eather Advisories.	
B) Terminal Ar	ea Forecasts (TAF).	
C) Weather De	epiction Chart.	
144.	PLT021	COM
What is the we	eight of propane?	
A) 4.2 pounds	per gallon.	
B) 6.0 pounds	per gallon.	
C) 7.5 pounds	per gallon.	
145.	PLT477	СОМ
In which situat for wind veloci	-	y to occur if inadequate airspeed allowance is made
A) During the a	approach to a landing.	
B) While therm	nalling at high altitudes.	
C) During take	off and climb while on aerotow.	
146.	PLT124	СОМ
A glide ratio of	22:1 with respect to the air mass	will be
A) 11:1 in a tai	ilwind and 44:1 in a headwind.	
B) 22:1 regard	less of wind direction and speed.	
C) 11:1 in a he	eadwind and 44:1 in a tailwind.	
147.	PLT257	СОМ
The reason for	r retaining water ballast while therr	mals are strong, is to
A) decrease fo	orward speed.	
B) decrease cr	ruise performance.	
C) increase cr	uise performance.	
148.	PLT123	СОМ
Minimum sink	speed is the airspeed which result	ts in the

in a given time.	
in a given distance.	
le in any convective situation.	
PLT257	COM
l at which abrupt and full deflection of the alled the	controls would not cause structural
PLT021	COM
of the glider's CG and its effect on glide	r spin characteristics, which is true?
evelop.	
vill be impossible.	
erate into CG high-speed spirals.	
PLT304	COM
er performance during launch?	
e launch airport and towline strength.	
the launch airport and the temperature so	•
launch mechanism and aerodynamic effic	ciency of the glider.
PLT326	COM
nt concerning oxygen systems that are o	ften installed in sailplanes.
oxygen systems use low-pressure cylind	ers for oxygen storage.
ning oxygen is not available, hospital or v	velder's oxygen serves as a good
tion of the main oxygen system, a bailout	bottle may serve as an emergency
PLT011	COM
in what position when operating in a stro	ng wind?
h a landing roll or ground operation.	
h a landing roll or ground operation.	
anding roll, but retracted during a ground	operation.
	in a given distance. le in any convective situation. PLT257 I at which abrupt and full deflection of the alled the PLT021 I of the glider's CG and its effect on glider evelop. Fill be impossible. Frate into CG high-speed spirals. PLT304 Fre performance during launch? Fe launch airport and towline strength. The launch airport and the temperature so alaunch mechanism and aerodynamic efficient oxygen systems that are or oxygen systems use low-pressure cylindring oxygen is not available, hospital or without of the main oxygen system, a bailout plant of the main oxygen system of the main oxygen system.

The purpose of wing sp A) the drag. B) landing speed. C) the lift of the wing.	oilers is to decrease	
155.	PLT215	COM
, ,	ng of west from one thermal to the next, the ings level. What will the conventional mag	-
A) A turn toward the so	uth.	
B) A turn toward the no	rth.	
C) Straight flight on a he	eading of 270°.	
156.	PLT216	COM
Which is true concernin	g total energy compensators? The instrun	nent
A) responds to up and o	down air currents only.	
B) will register climbs th	nat result from stick thermals.	
C) reacts to climbs and	descents like a conventional rate-of-climb	indicator.
157.	PLT216	COM
The advantage of a tota	al energy compensator is that this system	
A) includes a speed ring	g around the rim of the variometer.	
B) adds the effect of sti	ck thermals to the total energy produced b	y thermals.
C) reduces climb and d	ive errors on variometer indications cause	d by airspeed changes.
158.	PLT445	COM
Which is true regarding	the assembly of a glider for flight?	
A) It may be accomplish	ned by the pilot.	
B) It is not required by r	regulations for a glider pilot to know this.	
C) It must be accomplis	shed under the supervision of an FAA main	ntenance inspector.
159.	PLT170	COM
A rule of thumb for flyin	g a final approach is to maintain a speed t	hat is
A) twice the glider's sta	ll speed, regardless of windspeed.	
B) twice the glider's stal	II speed plus half the estimated windspeed	d.
C) 50 percent above the	e glider's stall speed plus half the estimate	ed windspeed.
160.	PLT474	COM

With regard to two or r	more gliders flying in the same thermal, wh	nich is true?
A) All turns should be	to the right.	
B) Turns should be in	the same direction as the highest glider.	
C) Turns should be ma	ade in the same direction as the first glider	to enter the thermal.
161.	PLT170	COM
What corrective action soon while using spoil	should be taken during a landing if the gliers?	der pilot makes the roundout too
A) Leave the spoilers	extended and lower the nose slightly.	
B) Retract the spoilers	and leave them retracted until after touch	down.
C) Retract the spoilers	s until the glider begins to settle again, ther	n extend the spoilers.
162.	PLT170	COM
Which is a recommend	ded procedure for an off-field landing?	
A) A recommended la	nding site would be a pasture.	
B) Always land into the	e wind even if you have to land downhill or	n a sloping field.
C) If the field slopes, it	t is usually best to land uphill, even with a t	tailwind.
163.	PLT257	COM
During an aerotow, mowill cause the	oving from the inside to the outside of the t	owplane's flightpath during a turn
A) towline to slacken.		
B) glider's airspeed to	increase, resulting in a tendency to climb.	
C) glider's airspeed to	decrease, resulting in a tendency to desce	end.
164.	PLT298	COM
The primary cause of	towline slack during aerotows is	
A) poor coordination.		
B) glider acceleration.		
C) positioning the glide	er too high.	
165.	PLT496	COM
During an aerotow, is	it good operating practice to release from a	a low-tow position?
A) No. The tow ring m	ay strike and damage the glider after relea	se.
B) No. The towline ma	ly snap forward and strike the towplane aft	er release.
C) Yes. Low-tow posit	ion is the correct position for releasing from	n the towplane.
166.	PLT496	COM

A) making a shallow-bar B) increasing the glider's	ack develops in the towline, the glider pilothed coordinated turn to either side. s pitch attitude until the towline becomes	taut.
C) yawing the glider's no	ose to one side with rudder while keeping	the wings level with the ailerons.
167.	PLT496	COM
airborne and before the A) not correct for a cross B) crab into the wind to	in crosswind conditions, the glider starts towplane lifts off. The glider pilot should swind during this part of the takeoff. remain in the flightpath of the towplane.	
C) hold upwind rudder ir	n order to crab into the wind and remain in	the flightpath of the towplane.
168.	PLT222	COM
A) When the towplane p	unner raise the glider's wing to the level poilot fans the towplane's rudder. Is seated and has fastened the safety below.	
C) After the glider pilot of	gives a thumbs-up signal to take up towlin	e slack.
169.	PLT298	СОМ
A) flying inside the towp	• .	n aerotow? By
B) flying outside the tow C) banking at the same bank and rate of roll.	point in space where the towplane banke	d and using the same degree of
170.	PLT401	COM
To signal the glider pilot A) fishtail the towplane. B) rock the towplane's w	during an aerotow to release immediately vings.	y, the tow pilot will
C) alternately raise and	lower the towplane's pitch attitude.	
171.	PLT304	COM
to a normal gliding attitu A) relax the back stick p	ressure to avoid excessive loss of altitude	e.
	re until the buffeting sound and vibration or prward immediately and hold it there until	
172.	PLT496	СОМ

When preparinoุ placed?	g for an autotow with a strong	g crosswind, where should the glider and towrope be
A) Straight behi	ind the tow car.	
B) Obliquely to	the line of takeoff on the upv	vind side of the tow car.
C) Obliquely to	the line of takeoff on the dov	vnwind side of the tow car.
173.	PLT304	СОМ
Which is true re	egarding the use of glider tow	v hooks?
A) The use of a length.	CG hook for auto or winch t	ows allows the sailplane greater altitude for a given line
B) The use of a the use of a		s better directional control at the start of the launch than
	nose hook for an auto or wi pared to the use of a CG hoo	nch launch reduces structural loading on the tail k.
174.	PLT304	COM
Which would ca	ause pitch oscillations or porp	poising during a winch launch?
A) Excessive w	inch speed.	
B) Insufficient w	vinch speed.	
C) Excessive sl	ack in the towline.	
175.	PLT304	COM
To stop pitch os	scillation during a winch laun	ch, the pilot should
A) increase the	back pressure on the control	ol stick and steepen the angle of climb.
B) relax the bad	ck pressure on the control sti	ck and shallow the angle of climb.
C) extend and r	retract the spoilers several ti	mes until the oscillations subside.
176.	PLT401	СОМ
	e action should a glider pilot to a cirborne and drifting to the	ake during takeoff if the towplane is still on the ground left?
A) Crab into the	e wind to maintain a position	directly behind the towplane.
B) Establish a r	ight wing-low drift correction	to remain in the flightpath of the towplane.
C) Wait until the	e towplane becomes airborn	e before attempting to establish a drift correction.
177.	PLT257	СОМ
recommended	speed to use is the	ng final glide or a long glide back to the airport, the
A) best glide sp		
B) minimum sin	к speed.	

C) speed-to-fly plus ha	alf the estimated windspeed at the glider's	flight altitude.
178.	PLT494	COM
	vould predict the best probability of good s	
179.	PLT062	COM
feet, as shown on the	th regard to the soundings taken at 1400 h Adiabatic Chart, what minimum surface te thermals to develop from the surface to 15	mperature is required for instability
180.	PLT062	COM
	000 feet.	ours, between what altitudes could
181.	PLT070	COM
	cording to the lifted index and K-index shown an	· · · · · · · · · · · · · · · · · · ·
182.	PLT070	COM
A) forecast freezing le B) forecast freezing le	of the composite moisture stability chart is evel data from surface observations. evel data from upper air observations. level data from upper air observations.	an analysis of
183.	PLT511	COM
	g the effect of fronts on soaring conditions	

A thermal column is rising from an asphalt parking lot and the wind is from the south at 12 knots. Which statement would be true? A) As altitude is gained, the best lift will be found directly above the parking lot. B) As altitude is gained, the center of the thermal will be found farther north of the parking lot. C) The slowest rate of sink would be close to the thermal and the fastest rate of sink farther from it. R) As altitude is gained, the center of the thermal will be found farther north of the parking lot. C) The slowest rate of sink would be close to the thermal and the fastest rate of sink farther from it. R) As altitude is gained, the center of the thermal will be found farther north of the parking lot. R) As altitude is gained, the center of the thermal will be found farther north of the parking lot. C) The slowest rate of sink would be close to the thermal and the fastest rate of sink farther from it. R) As altitude is gained, the center of the thermal will be found farther north of the parking lot. R) As altitude is gained, the center of the thermal late. B) As altitude is gained, the center of the thermal late and the surrounding air is at least 10° warmer than the gas in the envelope and the surrounding air is at least 10° warmer than the gas in the envelope and the surrounding air conclusions are altered by the Sun. R) As a state of sink farther from it. R) As a term used to describe the condition which exists A) when the surrounding air is at least 10° warmer than the gas in the envelope and the surrounding air accused by the Sun. R) As a term used to describe the envelope and the surrounding air and the liquid in the air manometer will fall below normal levels. R) As a term used to describe the surrounding air and the liquid in the air manometer will fall below normal levels. R) As a term used to describe the surrounding air and the liquid in the air manometer will fall below normal levels. R) As a term used tof san term used to describe the surrounding air at least 10° mano	A) Good soaring co	nditions usually exist after	passage of a warm front.
A thermal column is rising from an asphalt parking lot and the wind is from the south at 12 knots. Which statement would be true? A) As altitude is gained, the best lift will be found directly above the parking lot. B) As altitude is gained, the center of the thermal will be found farther north of the parking lot. C) The slowest rate of sink would be close to the thermal and the fastest rate of sink farther from it. R5. PLT244 COM Critical factors affecting the flight characteristics and controllability of an airship are aliasted and dynamic trim. C) temperature and atmospheric density. R6. PLT159 COM Superheat is a term used to describe the condition which exists A) when the surrounding air is at least 10° warmer than the gas in the envelope. B) when the Sun heats the envelope surface to a temperature at least 10° greater than the surrounding air. C) relative to the difference in temperature between the gas in the envelope and the surrounding air caused by the Sun. R7. PLT153 COM How does the pilot know when pressure height has been reached? Liquid in the gas A) and air manometers will fall below the normal level. B) manometer will fall and the liquid in the air manometer will rise above normal levels. C) manometer will rise and the liquid in the air manometer will fall below normal levels. C) manometer will rise and the liquid in the air manometer will fall below normal levels. C) manometer will rise and the liquid in the air manometer will fall below normal levels. C) manometer will rise and the liquid in the air manometer will fall below normal levels. C) manometer will rise and the liquid in the air manometer will rise above normal levels. C) manometer will rise and the liquid in the air manometer will rise above normal levels. C) manometer will rise and the liquid in the air manometer will rise above normal levels. C) manometer will rise and the liquid in the air manometer will rise above normal levels.	B) Excellent soaring	g conditions usually exist in	n the cold air ahead of a warm front.
A thermal column is rising from an asphalt parking lot and the wind is from the south at 12 knots. Which statement would be true? A) As altitude is gained, the best lift will be found directly above the parking lot. 3) As altitude is gained, the center of the thermal will be found farther north of the parking lot. 3) As altitude is gained, the center of the thermal will be found farther north of the parking lot. 3) As altitude is gained, the center of the thermal will be found farther north of the parking lot. 3) As altitude is gained, the center of the thermal will be found farther north of the parking lot. 3) As altitude is gained, the center of the thermal will be found farther north of the parking lot. 4) A parking a complete the condition will be found farther north of the parking lot. 5) A parking and dynamic trim. 6) COM 6) Superheat is a term used to describe the condition which exists 6) A) When the surrounding air is at least 10° warmer than the gas in the envelope. 8) When the Sun heats the envelope surface to a temperature at least 10° greater than the surrounding air. 6) PLT159 7) COM 7) PLT153 8) COM 8) How does the pilot know when pressure height has been reached? Liquid in the gas 8) A) and air manometers will fall below the normal level. 8) Manometer will fall and the liquid in the air manometer will rise above normal levels. 6) Manometer will rise and the liquid in the air manometer will fall below normal levels. 8) Manometer will rise and the liquid in the air manometer will fall below normal levels. 8) A decrease the volume of gas within the envelope. 8) decrease the purity of the gas within the envelope. 8) decrease the amount of air to be exhausted, resulting in a lower rate of ascent.	C) Frequently the a	ir behind a cold front provi	des excellent soaring for several days.
A thermal column is rising from an asphalt parking lot and the wind is from the south at 12 knots. Which statement would be true? A) As altitude is gained, the best lift will be found directly above the parking lot. 3) As altitude is gained, the center of the thermal will be found farther north of the parking lot. 3) As altitude is gained, the center of the thermal will be found farther north of the parking lot. 3) As altitude is gained, the center of the thermal will be found farther north of the parking lot. 3) As altitude is gained, the center of the thermal will be found farther north of the parking lot. 3) As altitude is gained, the center of the thermal will be found farther north of the parking lot. 4) A parking a complete the condition will be found farther north of the parking lot. 5) A parking and dynamic trim. 6) COM 6) Superheat is a term used to describe the condition which exists 6) A) When the surrounding air is at least 10° warmer than the gas in the envelope. 8) When the Sun heats the envelope surface to a temperature at least 10° greater than the surrounding air. 6) PLT159 7) COM 7) PLT153 8) COM 8) How does the pilot know when pressure height has been reached? Liquid in the gas 8) A) and air manometers will fall below the normal level. 8) Manometer will fall and the liquid in the air manometer will rise above normal levels. 6) Manometer will rise and the liquid in the air manometer will fall below normal levels. 8) Manometer will rise and the liquid in the air manometer will fall below normal levels. 8) A decrease the volume of gas within the envelope. 8) decrease the purity of the gas within the envelope. 8) decrease the amount of air to be exhausted, resulting in a lower rate of ascent.			
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As altitude is gained, the center of the thermal will be found farther north of the parking lot. The slowest rate of sink would be close to the thermal and the fastest rate of sink farther from it. BES. PLT244 COM Critical factors affecting the flight characteristics and controllability of an airship are A) airspeed and power. Sy static and dynamic trim. The temperature and atmospheric density. BEG. PLT159 COM Superheat is a term used to describe the condition which exists A) when the surrounding air is at least 10° warmer than the gas in the envelope. Sy when the Sun heats the envelope surface to a temperature at least 10° greater than the surrounding air. The relative to the difference in temperature between the gas in the envelope and the surrounding air caused by the Sun. BES. PLT153 COM How does the pilot know when pressure height has been reached? Liquid in the gas A) and air manometers will fall below the normal level. The manometer will rise and the liquid in the air manometer will rise above normal levels. The manometer will rise and the liquid in the air manometer will fall below normal levels. C) manometer will rise and the liquid in the air manometer will fall below normal levels. C) manometer will system would A) decrease the volume of gas within the envelope. B) decrease the purity of the gas within the envelope. C) increase the amount of air to be exhausted, resulting in a lower rate of ascent.			rking lot and the wind is from the south at 12 knots.
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Surrounding air. C) relative to the difference in temperature between the gas in the envelope and the surrounding air caused by the Sun. 187. PLT153 COM How does the pilot know when pressure height has been reached? Liquid in the gas A) and air manometers will fall below the normal level. B) manometer will fall and the liquid in the air manometer will rise above normal levels. C) manometer will rise and the liquid in the air manometer will fall below normal levels. 188. PLT473 COM Damper valves should normally be kept closed during a maximum rate climb to altitude because any air forced into the system would A) decrease the volume of gas within the envelope. B) decrease the purity of the gas within the envelope. C) increase the amount of air to be exhausted, resulting in a lower rate of ascent.	A) when the surrour	nding air is at least 10° wa	rmer than the gas in the envelope.
PLT153 COM How does the pilot know when pressure height has been reached? Liquid in the gas A) and air manometers will fall below the normal level. B) manometer will fall and the liquid in the air manometer will rise above normal levels. C) manometer will rise and the liquid in the air manometer will fall below normal levels. 188. PLT473 COM Damper valves should normally be kept closed during a maximum rate climb to altitude because any air forced into the system would A) decrease the volume of gas within the envelope. B) decrease the purity of the gas within the envelope. C) increase the amount of air to be exhausted, resulting in a lower rate of ascent.	B) when the Sun he surrounding air.	eats the envelope surface	to a temperature at least 10° greater than the
How does the pilot know when pressure height has been reached? Liquid in the gas A) and air manometers will fall below the normal level. B) manometer will fall and the liquid in the air manometer will rise above normal levels. C) manometer will rise and the liquid in the air manometer will fall below normal levels. 188. PLT473 COM Damper valves should normally be kept closed during a maximum rate climb to altitude because any air forced into the system would A) decrease the volume of gas within the envelope. B) decrease the purity of the gas within the envelope. C) increase the amount of air to be exhausted, resulting in a lower rate of ascent.	C) relative to the dif caused by the Sun.		tween the gas in the envelope and the surrounding air
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B) manometer will fall and the liquid in the air manometer will rise above normal levels. C) manometer will rise and the liquid in the air manometer will fall below normal levels. 188. PLT473 COM Camper valves should normally be kept closed during a maximum rate climb to altitude because any air forced into the system would A) decrease the volume of gas within the envelope. B) decrease the purity of the gas within the envelope. C) increase the amount of air to be exhausted, resulting in a lower rate of ascent.	How does the pilot I	know when pressure heigl	nt has been reached? Liquid in the gas
C) manometer will rise and the liquid in the air manometer will fall below normal levels. 188. PLT473 COM Damper valves should normally be kept closed during a maximum rate climb to altitude because any air forced into the system would A) decrease the volume of gas within the envelope. B) decrease the purity of the gas within the envelope. C) increase the amount of air to be exhausted, resulting in a lower rate of ascent.	A) and air manomet	ters will fall below the norr	nal level.
Damper valves should normally be kept closed during a maximum rate climb to altitude because any air forced into the system would A) decrease the volume of gas within the envelope. B) decrease the purity of the gas within the envelope. C) increase the amount of air to be exhausted, resulting in a lower rate of ascent.	B) manometer will f	all and the liquid in the air	manometer will rise above normal levels.
Damper valves should normally be kept closed during a maximum rate climb to altitude because any air forced into the system would A) decrease the volume of gas within the envelope. B) decrease the purity of the gas within the envelope. C) increase the amount of air to be exhausted, resulting in a lower rate of ascent.	C) manometer will r	rise and the liquid in the ai	r manometer will fall below normal levels.
A) decrease the volume of gas within the envelope. B) decrease the purity of the gas within the envelope. C) increase the amount of air to be exhausted, resulting in a lower rate of ascent.	188.	PLT473	COM
B) decrease the purity of the gas within the envelope. C) increase the amount of air to be exhausted, resulting in a lower rate of ascent.			d during a maximum rate climb to altitude because
C) increase the amount of air to be exhausted, resulting in a lower rate of ascent.	A) decrease the vol	ume of gas within the env	elope.
	B) decrease the pur	rity of the gas within the er	rvelope.
189. PLT157 COM	C) increase the amo	ount of air to be exhausted	d, resulting in a lower rate of ascent.
	189.	PLT157	COM

When checking gas pre should be	essure (pressure height) of an airship durir	ng a climb, the air damper valves
A) opened.		
B) closed.		
C) opened aft and close	ed forward.	
190.	PLT473	COM
locks should not be end A) ballonet overinflation B) the aircraft will enter	ship with the ballonet air valve in the autom gaged with either after-damper open becan n and rupture may occur. r an excessive bow-high attitude. r an excessive stern-high attitude.	•
191.	PLT153	COM
Maximum headway in a A) Slightly nosedown. B) Slightly tail down. C) Flying in equilibrium	an airship is possible only under which cor	ndition?
192.	PLT133	COM
Which action is necess A) Valve gas. B) Valve air. C) Take air into the aft	ary to perform a normal descent in an airs ballonets.	hip?
193.	PLT208	COM
If both engines fail while	e en route, an airship should be	
A) brought to a condition	on of equilibrium as soon as possible and f	ree-ballooned.
B) trimmed nose-heavy landing site.	to use the airship's negative dynamic lift	to fly the airship down to the
C) trimmed nose-light to descent to the landing s	o use the airship's positive dynamic lift to osite.	control the angle and rate of
194.	PLT208	COM
	perience failure of both engines during fligh nmediate action must the pilot take?	t and neither engine can be
A) Immediate preparati	ons to operate the airship as a balloon are	necessary.
B) The airship must be	driven down to a landing before control ar	nd envelope shape are lost.

-	cy auxiliary power unit mus nflation can be maintained.	t be started for electrical power to the airscoop blowers
195.	PLT221	COM
made if the airsh		when the wind is calm, the best landing can usually be
A) in trim.		
•	pproximately 20°.	
C) tail-heavy app	proximately 20°.	
196.	PLT153	COM
•	a weigh-off in the air prior t	allasted forward to overcome a climbing tendency and to landing, will be very bow heavy. This condition must
A) ballasting air	aft.	
B) discharging for	orward ballast.	
C) dumping fuel	from the forward tanks.	
197.	PLT154	COM
The purpose of a	a ground weigh-off is to dete	ermine the
A) useful lift of th	e airship.	
B) gross weight	of the airship.	
C) static condition	n of the airship and the con	dition of trim.
198.	PLT221	COM
Which take-off p	rocedure is considered to b	e most hazardous?
A) Failing to app	ly full engine power properly	y on all takeoffs, regardless of wind.
B) Maintaining o	nly 50 percent of the maxim	num permissible positive angle of inclination.
C) Maintaining a controllability.	negative angle of inclinatio	n during takeoff after elevator response is adequate for
199.	PLT295	COM
What is the prima periods?	ary consideration in determ	ining the length and frequency of flight instruction
A) Fatigue.		
B) Mental acuity.		
C) Physical cond	litioning.	
200.	PLT083	COM

ne glide slope becomes inoperative during es?	the ILS RWY 31R procedure at
PLT170 ored, an approach clearance is received. The scent. Scent. Grant of a published route or instrument a	
PLT083 The symbol [9200] in the MSA circle of the IL The safe sector altitude within 25 NM of the IL The safe sector altitude	COM S RWY 35R procedure at DEN
PLT277 ne final approach fix for the ILS precision a n. t. n/locator outer marker.	COM approach is located at
PLT277 the DEN ILS RWY 35R procedure, the glid	COM de slope intercept altitude is
PLT083	COM
	PLT170 ored, an approach clearance is received. The scent. gment of a published route or instrument at the PLT083 The symbol [9200] in the MSA circle of the III safe sector altitude within 25 NM of the III safe sector altitude within 25 NM of the III section at the sector outer marker. PLT277 The final approach fix for the ILS precision at the sector outer marker. PLT277 The DEN ILS RWY 35R procedure, the glice

206.	PLT080	СОМ	
Which is true regarding	STAR's? STAR's are		
9 9	R and known VFR traffic.		
B) to facilitate transition	between en route and instrument approach	ch procedures.	
C) used at certain airpo	rts to relieve traffic congestion.	·	
207.	PLT391	COM	
You are flying an airship	o under an IFR flight plan and experience aditions. In this situation, you should contin	two-way communications radio	
A) VFR and land as soo	on as practicable.		
B) VFR and proceed to	your flight-plan destination.		
C) IFR and maintain the	e last assigned route and altitude to your fl	ight-plan destination.	
208.	PLT044	СОМ	
Does the ATC term, 'cru	uise 3000', apply to airship IFR operations	?	
A) No, this term applies	to airplane IFR operations only.		
B) Yes, it means that ar	ny assigned altitude can be vacated withou	ut notifying ATC.	
C) Yes, in part, it authorpilot's discretion.	rizes the pilot to commence the approach	at the destination airport at the	
209.	PLT040	COM	
(Refer to figure 55) En crossing GYMME inters	route on V112 from BTG VORTAC to LTJ section is	VORTAC, the minimum altitude	
A) 6,400 feet.			
B) 6,500 feet.			
C) 7,000 feet.			
210.	PLT298	СОМ	
When operating an airship under IFR with a VFR-on-top clearance, what altitude should be maintained?			
A) The last IFR altitude	assigned by ATC.		
B) An IFR cruising altitu	ide appropriate to the magnetic course be	ing flown.	
C) A VFR cruising altitu	de appropriate to the magnetic course bei	ng flown and as restricted by ATC.	
211.	PLT220	COM	
Operation of a lighter-th and lighted with	nan-air airship, during the period of sunset	to sunrise, requires it be equipped	
A) position lights.			
B) position lights and av	viation red or white anticollision light system	m.	

C) approved aviation	red and white lights.			
212.	PLT470		COM	
A) simultaneously to B) simultaneously bu	from pre-rotation to flight the same angle of incurt to different angles of the eat the same point in	incidence.		
213.	PLT123		COM	
Why should gyroplar avoided?	ne operations within th	e cross-hatched portior	n of a Height vs. Ve	elocity chart be
A) The rotor RPM ma	ay build excessively hi	gh if it is necessary to f	lare at such low alt	itudes.
B) Sufficient airspeed	d may not be available	to ensure a safe landir	ng in case of an en	gine failure.
C) Turbulence near t conditions on the rote		se the blade dampers o	causing geometric	unbalanced
214.			PLT011	СОМ
(Refer to figures 45 a	and 46.)			
GIVEN:				
Pressure altitude			4,000 ft	
Ambient temperature	9		80 °F	
To clear a 50-foot ob	stacle, a jump takeoff	would require		
A) more distance tha	n a running takeoff.			
B) less distance than	a running takeoff.			
C) the same distance	e as a running takeoff.			
215.			PLT011	COM
(Refer to figures 45 a	and 46.)			
GIVEN:				
Pressure altitude			4,000 ft	
Ambient temperature	9		80 °F	
The takeoff distance	to clear a 50-foot obst	tacle is		
A) 1,225 feet for a ju	mp takeoff.			
B) 1,440 feet for a ru	nning takeoff.			
C) less for a running	takeoff than for a jump	o takeoff.		
216.	PLT373		COM	
The principal factor li	imiting the never-exce	ed speed (VNE) of a gy	roplane is	

A) turbulence	and altitude.		
B) blade-tip sp	peed, which must remain below the	speed of sound.	
-	icient cyclic stick control to compen which occurs first.	sate for dissymmetry of lift or retre	eating blade stall,
217.	PLT040	COM	
(Refer to figure	e 52, point 5) The floor of the Class	E airspace over University Airpor	t (0O5) is
A) the surface			
B) 700 feet AC	GL.		
C) 1,200 feet /	AGL.		
218.	PLT298	COM	
During an aero caused by	otow, the glider moves to one side	of the towplane`s flightpath. This v	vas most likely
A) variations ir	n the heading of the towplane.		
B) entering wir	ngtip vortices created by the towpla	ine.	
C) flying the sa	ailplane in a wing-low attitude or ho	olding unnecessary rudder pressur	e.
219.		PLT012	COM
GIVEN:			
Glider`s max a	auto/winch tow speed	66 MPH	
Surface wind ((direct headwind)	5 MPH	
Wind gradient		4 MPH	
When the glide	er reaches an altitude of 200 feet th	ne auto/winch speed should be	
A) 42 MPH.			
B) 46 MPH.			
C) 56 MPH.			
220.	PLT149	COM	
Select the true	e statement concerning gyroplane to	axi procedures.	
A) Avoid abru	ot control movements when blades	are turning.	
B) The cyclic s	stick should be held in the neutral p	osition at all times.	
C) The cyclic s	stick should be held slightly aft of ne	eutral at all times.	
221.	PLT328	COM	
•	o using the weight information give it is important to know that if items l ment, the		•
A) allowable u	seful load is decreased.		

B) allowable useful loa	d remains unchanged.	
C) maximum allowable	gross weight is increased.	
222.	PLT235	СОМ
-	is applied during flight that results in a ma e 'three o'clock' position. Which way will th	
223.	PLT235	COM
What happens to the h	elicopter as it experiences translating tend	dency?
	y to the right as the helicopter approaches of the rotor system of the rotor thrust.	
224.	PLT127	СОМ
A) higher than standard B) lower than standard	mance is most adversely affected by d temperature and low relative humidity. temperature and high relative humidity. d temperature and high relative humidity.	
225.	PLT127	COM
A) Engine and rotor eff B) Engine and rotor eff	•	flight.
226.	PLT190	COM
	copter in conditions favorable for carbureto	
A) adjusted to keep the	e carburetor air temperature gauge indicat	ing in the green arc at all times.
B) OFF for takeoffs, ad arc at all other times.	justed to keep the carburetor air temperat	ure gauge indicating in the green
	, approaches, and landings; adjusted to k green arc at all other times.	eep the carburetor air temperature
227.	PLT470	СОМ
The primary purpose o	f the tail rotor system is to	

A) assist in ma	aking coordinated turns.	
B) maintain he	eading during forward flight.	
C) counteract	the torque effect of the main roto	r.
228.	PLT470	COM
	tor produce thrust to the left?	
A) No; the righ	nt thrust can only be reduced, cau	using tail movement to the left.
B) Yes; primaı	rily so that hovering turns can be	accomplished to the right.
C) Yes; prima	rily to counteract the drag of the t	ransmission during autorotation.
229.	PLT112	COM
If the RPM is I	ow and the manifold pressure is	high, what initial corrective action should be taken?
A) Increase th	e throttle.	
B) Lower the o	collective pitch.	
C) Raise the c	collective pitch.	
230.	PLT472	COM
		ccurs during flight could be indicative of a defective
A) main rotor s		
B) tail rotor sy	•	
C) transmission		
o, transmoore	ar eyetem.	
231.	PLT472	COM
In most helico	pters, medium-frequency vibratio	ns indicate a defective
A) engine.		
B) main rotor s	system.	
C) tail rotor sy	stem.	
232.	PLT343	COM
		kely to stop due to in-flight carburetor icing than will
the same type	engine in an airplane. This state	ment
A) has no bas	is in fact. The same type engine	will run equally well in either aircraft.
B) is true. The helicopter eng		vindmilling (flywheel) effect to be exerted on a
C) is false. The malfunctioning		the load from the helicopter engine under engine
233.	PLT470	COM
The main roto	r blades of a fully-articulated roto	r system can

A) flap and fea	ther collectively.	
B) flap, drag, a	nd feather independently.	
C) feather inde	pendently, but cannot flap or dra	g.
234.	PLT470	COM
The main rotor	blades of a semirigid rotor system	m can
A) flap togethe	r as a unit.	
B) flap, drag, a	nd feather independently.	
C) feather inde	ependently, but cannot flap or dra	g.
235.	PLT472	COM
Abnormal helic component?	copter vibrations in the low-freque	ency range are associated with which system or
A) Tail rotor.		
B) Main rotor.		
C) Transmission	on.	
236.	PLT471	COM
What is the pri	mary purpose of the clutch?	
A) It allows the	engine to be started without driv	ing the main rotor system.
B) It provides of	lisengagement of the engine fron	n the rotor system for autorotation.
C) It transmits	engine power to the main rotor, to	ail rotor, generator/alternator, and other accessories.
237.	PLT471	COM
What is the pri	mary purpose of the freewheeling	y unit?
A) It allows the	engine to be started without driv	ing the main rotor system.
B) It provides s	speed reduction between the eng	ine, main rotor system, and tail rotor system.
C) It provides of	disengagement of the engine fron	n the rotor system for autorotation purposes.
238.	PLT435	COM
When approac helicopter pilot	•	an operating control tower, in Class G airspace, a
A) enter and fly	y a traffic pattern at 800 feet AGL	•
B) make all tur	ns to the left, unless otherwise in	dicated.
C) avoid the flo	ow of fixed-wing aircraft.	
239.	PLT336	СОМ
During a norma	al approach to a hover, the collec	tive pitch control is used primarily to

A) maintain R	PM.	
B) control the	rate of closure.	
C) control the	angle of descent.	
240.	PLT112	СОМ
During climbir action should		s low and the RPM is high. What initial corrective
A) Increase th	e throttle.	
B) Decrease t	he throttle.	
C) Raise the o	collective pitch.	
241.	PLT175	СОМ
Using left ped RPM to	al to assist a left turn during an	autorotative descent will probably cause the rotor
A) increase ar	nd the airspeed to decrease.	
B) decrease a	and the aircraft nose to pitch dov	vn.
C) increase ar	nd the aircraft nose to pitch dow	n.
242.	PLT259	СОМ
Ground reson	ance is less likely to occur with	helicopters that are not equipped with
A) rigid rotor s	systems.	
B) fully articula	ated rotor systems.	
C) semi-rigid ı	rotor systems.	
243.	PLT265	СОМ
Should a helic	copter pilot ever be concerned a	bout ground resonance during takeoff?
A) No; ground	I resonance occurs only during a	an autorotative touchdown.
B) Yes; althou	igh it is more likely to occur on la	anding, it can occur during takeoff.
C) Yes, but or	nly during slope takeoffs.	
244.	PLT169	СОМ
-	yaws to the right just prior to to	tht and a powered approach landing is commenced. If uchdown, what could the pilot do to help swing the
A) Increase th	e throttle.	
B) Decrease t	he throttle.	
C) Increase co	ollective pitch.	
245.	PLT470	СОМ

How should a pilot	react at the onset of retre	eating blade stall?
A) Reduce collective	ve pitch, rotor RPM, and f	orward airspeed.
B) Reduce collective	ve pitch, increase rotor RI	PM, and reduce forward airspeed.
C) Increase collect	tive pitch, reduce rotor RF	PM, and reduce forward airspeed.
246.	PLT208	COM
Which statement is	s true about an autorotativ	ve descent?
A) Generally, only	the cyclic control is used	to make turns.
B) The pilot should	I use the collective pitch o	control to control the rate of descent.
C) The rotor RPM	will tend to decrease if a t	tight turn is made with a heavily loaded helicopter.
247.	PLT349	СОМ
When conducting a is to determine the		ration, the primary purpose of the high reconnaissance
A) power requirem	ents for the approach.	
B) suitability of the	area for landing.	
C) amount of slope	e in the landing area.	
248.	PLT170	СОМ
		s of high wind and turbulence, the pilot should make a t line of descent with cyclic applications.
,	•	• • • •
	-	nan-normal rate of descent with cyclic applications.
applications.	лтаг арргоасп, тапкат	ng the desired angle of descent with collective
249.	PLT129	COM
What is the proced	lure for a slope landing?	
A) Use maximum I	RPM and maximum manif	old pressure.
B) If the slope is 10	0° or less, the landing sho	ould be made perpendicular to the slope.
C) When parallel to downslope skid.	o the slope, slowly lower t	he upslope skid to the ground prior to lowering the
250.	PLT113	COM
When planning slo because	pe operations, only slope	s of 5° gradient or less should be considered, primarily
A) ground effect is	lost on slopes of steeper	gradient.
B) downwash turb	ulence is more severe on	slopes of steeper gradient.
C) most helicopter	s are not designed for ope	erations on slopes of steeper gradient.

251.	PLT268	COM
201.	1 2 1 2 0 0	COIVI

A pilot is hovering during calm wind conditions. The greatest amount of engine power will be required when

- A) ground effect exists.
- B) making a left-pedal turn.
- C) making a right-pedal turn.

252. PLT201 COM

Which is true concerning a running takeoff?

- A) If a helicopter cannot be lifted vertically, a running takeoff should be made.
- B) One advantage of a running takeoff is that the additional airspeed can be converted quickly to altitude.
- C) A running takeoff may be possible when gross weight or density altitude prevents a sustained hover at normal hovering altitude.

253. GIVEN:	PLT021	COM			
WEIGHT		LNG.	LNG.	LAT.	LAT.
WE10111		ARM	MOM.	ARM.	MOM.
Empty weight	1700	116.1	?	+0.2	
Fuel (75 gal at 6.8 ppg)	?	110.0			
Oil	12	179.0			
Pilot (right seat)	175	65.0	?	12.5	
Passenger (left seat)	195	104.0	?	-13.3	?
TOTALS	?	?	?	?	?

Determine the longitudinal and lateral CG respectively.

- A) 109.35 inches and -.04 inches.
- B) 110.43 inches and +.02 inches.
- C) 110.83 inches and -.02 inches.

254. PLT240 COM

A helicopter is loaded in such a manner that the CG is located aft of the aft allowable CG limit. Which is true about this situation?

- A) In case of an autorotation, sufficient aft cyclic control may not be available to flare properly.
- B) This condition would become more hazardous as fuel is consumed, if the main fuel tank is located aft of the rotor mast.
- C) If the helicopter should pitchup due to gusty winds during high-speed flight, there may not be sufficient forward cyclic control available to lower the nose.

PL1240	COM			
ed in such a manner the this situation?	nat the CG is located forward of the allowable CG limit.			
ould become less haz	ardous as fuel is consumed if the fuel tank is located aft of			
e failure and the result the landing.	ing autorotation, you may not have enough cyclic control			
C) Should the aircraft pitchup during cruise flight due to gusty winds, there may not be enough forward cyclic control available to lower the nose.				
PLT373	COM			
Which is true with respect to operating limitations of a 'primary' category airplane?				
A) A 'primary' category airplane is limited to a specified operating radius from its home base.				
B) A pilot of a 'primary' category airplane must hold a commercial pilot certificate when carrying passengers for compensation or hire.				
operate a 'primary' cat e.	egory airplane carrying passengers or property for			
PLT395	COM			
es VY as				
A) speed for best rate of descent.				
3) speed for best angle of climb.				
	ed in such a manner the this situation? Duld become less haze a failure and the result the landing. The landing of available to lower the PLT373 respect to operating limited ary' category airplane apensation or hire. The perate a 'primary' cate of descent.			

C) speed for best rate of climb.