05/23/2007

Bank: (Commercial Pilot)

Airman Knowledge Test Question Bank

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1. H921 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. H921 COM

Baggage weighing 90 pounds is placed in a normal category airplane's baggage compartment which is placarded at 100 pounds. If this airplane is subjected to a positive load factor of 3.5 G's, the total load of the baggage would be

- A) 315 pounds and would be excessive.
- B) 315 pounds and would not be excessive.
- C) 350 pounds and would not be excessive.

3. H921 COM

While holding the angle of bank constant in a level turn, if the rate of turn is varied the load factor would

- A) remain constant regardless of air density and the resultant lift vector.
- B) vary depending upon speed and air density provided the resultant lift vector varies proportionately.
- C) vary depending upon the resultant lift vector.

4. H912 COM

During the transition from straight-and-level flight to a climb, the angle of attack is increased and lift

- A) is momentarily decreased.
- B) remains the same.
- C) is momentarily increased.

5. H912 COM

Lift on a wing i	s most properly defined as the		
A) force acting	perpendicular to the relative wind.		
B) differential p	pressure acting perpendicular to the cho	ord of the wing.	
•	essure resulting from a laminar flow ove to the mean camber.	r the upper camber of an air	foil, which acts
6.	H912	COM	
As airspeed de airplane	ecreases in level flight below that speed	for maximum lift/drag ratio,	total drag of an
A) decreases b	pecause of lower parasite drag.		
B) increases b	ecause of increased induced drag.		
C) increases b	ecause of increased parasite drag.		
7.	H942	COM	
What performa Maximum	ance is characteristic of flight at maximu	m lift/drag ratio in a propelle	r-driven airplane?
A) gain in altitu	ıde over a given distance.		
B) range and r	naximum distance glide.		
C) coefficient o	of lift and minimum coefficient of drag.		
8.	H940	COM	
-	a stall in any airplane becomes more d avity moves forward.	ifficult when its	
	n is adjusted nosedown.		
•	avity moves aft.		
c) center or gr	avity moves ait.		
9.	H921	COM	
The need to sl	ow an aircraft below VA is brought abou	t by the following weather p	henomenon:
A) High density	y altitude which increases the indicated	stall speed.	
B) Turbulence	which causes an increase in stall speed	d.	
C) Turbulence	which causes a decrease in stall speed		
10.		H946	COM
(Refer to figure GIVEN:	e 35.)		
Temperature		85 °F	
Pressure altitu	de	6,000 ft	
Weight		2,800 lb	

Headwind Determine the approach A) 742 feet. B) 1,280 feet. C) 1,480 feet.	eximate ground roll.	14 kts
	-	COM arding stall speeds. The airplane will stall
	•	ear and flaps up, than with gear and flaps down. 5, than in a power-off, flaps-down, wings-level
C) 10 knots higher in	n a 45° bank, power-on stall, the	an in a wings-level stall with flaps up.
12.	H983	COM
If fuel consumption is for an airplane to tra A) 205 pounds. B) 212 pounds. C) 460 pounds.		ndspeed is 180 knots, how much fuel is required
13.	H921	COM
(Refer to figure 5.) T by the maximum special A) green arc. B) yellow arc. C) white arc.		point G is represented on the airspeed indicator
14.	130	COM
Which is true regard weather conditions?	ing the use of airborne weather	-avoidance radar for the recognition of certain
		ng instrument weather conditions. ween and just clear of the most intense echoes.
•	etween intense echoes indicate ing between the echoes.	s that visual sighting of storms can be
15.	H926	COM
Which is true regard	ing the use of flaps during leve	turns?
A) The lowering of fl	aps increases the stall speed.	
B) The raising of flap	os increases the stall speed.	

C) Raising flap	s will require added for	ward pressure on the yoke or stick.
16.	H931	СОМ
Which airspeed A) The never- B) The power- C) The maneu	exceed speed. off stall speed.	le to identify by the color coding of an airspeed indicator?
17.	H931	COM
A) the current B) 29.92 inche	altimeter setting. s Hg and the altimeter i	takeoff, the altimeter should be set to indication noted. e reading in the altimeter setting window noted.
18.	L52	COM
they are susce A) congealed of B) moisture from	ptible to being clogged oil from the crankcase. om the outside air which	
19.	L52	СОМ
If necessary to minimized by A) recycling the B) delaying ge	take off from a slushy e gear.	runway, the freezing of landing gear mechanisms can be
A) prevents the B) regulates the	e amount of air flow thr	COM which om becoming too rich at higher altitudes. ough the carburetor's venturi. om becoming lean as the airplane climbs.
A) gains altitud	H928 rk plugs is more apt to delete the more adjusted to the mixture adjusted	stment.
B) descends fr	om altitude with no mix	ture adjustment.

C) throttle is a	advanced very abruptly.	
22.	H928	COM
•		propellers and normally-aspirated engines, which g undue stress on the engine components? When power
A) decreased	, reduce the RPM before red	lucing the manifold pressure.
B) increased,	increase the RPM before in	creasing the manifold pressure.
C) increased	or decreased, the RPM show	uld be adjusted before the manifold pressure.
23.	H928	COM
Which statem	ent best describes the opera	ating principle of a constant-speed propeller?
•	setting is changed by the pil ain unchanged.	ot, the prop governor causes pitch angle of the propeller
B) A high blactor takeoffs.	de angle, or increased pitch,	reduces the propeller drag and allows more engine powe
C) The prope	ller control regulates the eng	ine RPM, and in turn, the propeller RPM.
24.	J13	COM
What is the m clearance?	ninimum visibility and ceiling	required for a pilot to receive a 'land and hold short'
A) 3 nautical	miles and 1,000 feet.	
B) 3 statute m	niles and 1,000 feet.	
C) 3 statute n	niles and 1,500 feet.	
25.	J37	COM
(Refer to figur	re 52, point 9) The alert area	depicted within the blue lines is an area in which
•	nigh volume of pilot training a ordous to aircraft.	activities or an unusual type of aerial activity, neither of
B) the flight of	f aircraft is prohibited.	
C) the flight o	f aircraft, while not prohibited	d, is subject to restriction.
26.	J29	COM
When in the v	vicinity of a VOR which is bei	ing used for navigation on VFR flights, it is important to
A) make 90° l	eft and right turns to scan fo	r other traffic.
B) exercise su directions.	ustained vigilance to avoid a	ircraft that may be converging on the VOR from other
	OR on the right side of the rne same radial.	adial to allow room for aircraft flying in the opposite

27.	J22	COM
To use VHF/DF	facilities for assistance	in locating your position, you must have an operative VHF
A) transmitter ar	nd receiver.	
B) transmitter ar	nd receiver, and an ope	rative ADF receiver.
C) transmitter ar	nd receiver, and an ope	rative VOR receiver.
20	114076	COM
28.	H1276	COM
		ng at night, one of the primary considerations should include
,		ave battery power for the landing.
,	nding area close to pub	·
C) landing witho	out haps to ensure a nos	e-high landing attitude at touchdown.
29.	J27	COM
During a takeoff wingtip vortices		ng large jet airplane, the pilot can minimize the hazard of
A) being airborn	e prior to reaching the j	et's flightpath until able to turn clear of its wake.
B) maintaining e	extra speed on takeoff a	nd climbout.
C) extending the	e takeoff roll and not rota	ating until well beyond the jet's rotation point.
30.	L05	СОМ
•	•	ought, he or she then should correct it by stating the llowing is the antidote for MACHO?
A) Follow the rul	les. They are usually rig	ht.
B) Not so fast. T	hink first.	
C) Taking chance	ces is foolish.	
31.	L05	СОМ
		es dealt with in Aeronautical Decision Making (ADM)?
	ment, stress manageme	• , ,
	_	areness, and judgment.
,	•	ity (do something quickly without thinking), macho (I can do
it).	(don't tell me), impulsiv	ty (do something quietty without thinking), macrie (reali de
32.	L05	COM
The basic drive	for a pilot to demonstrat	e the 'right stuff' can have an adverse effect on safety, by
A) a total disrega	ard for any alternative c	ourse of action.
B) generating te to a mishap.	ndencies that lead to pr	actices that are dangerous, often illegal, and that may lead
C) imposing a re	ealistic assessment of p	iloting skills under stressful conditions.

33.	L05	COM
•		us tendencies or behavior problems at some time. Some of or patterns which must be identified and eliminated include:
A) Deficiencies i	in instrument skills and	knowledge of aircraft systems or limitations.
B) Peer pressuradequate fuel re	_	positional or situation awareness, and operating without
C) Performance	deficiencies from hum	an factors such as, fatigue, illness or emotional problems.
34.	L05	COM
An early part of	the Aeronautical Decis	ion Making (ADM) process involves
A) taking a self-	assessment hazardous	attitude inventory test.
B) understandin	g the drive to have the	'right stuff.'
C) obtaining pro	per flight instruction an	d experience during training.
35.	L05	COM
	al Decision Making (AD these steps includes a	M) process identifies the steps involved in good decision pilot
A) identifying pe	rsonal attitudes hazard	ous to safe flight.
B) developing th	e 'right stuff' attitude.	
C) making a rati	onal evaluation of the r	equired actions.
36.	L05	COM
		from a cloud to find himself within 300 feet of a helicopter. tillustrates the 'MACHO' reaction?
A) He is not too	concerned; everything	will be alright.
B) He flies a little	e closer, just to show h	im.
C) He quickly tu	rns away and dives, to	avoid collision.
37.	L05	СОМ
Which of the foll Aeronautical De	-	of the Decide Model for effective risk management and
A) Estimate.		
B) Eliminate.		
C) Evaluate.		
38.	L05	СОМ
To help manage	cockpit stress, pilots r	nust
A) condition the	mselves to relax and th	ink rationally when stress appears.

•	ss situations that are similar to will improve their abilities to	o those in flying. handle cockpit responsibilities.
39.	J31	COM
Which is true regarding	the presence of alcohol with	in the human body?
A) A small amount of a	lcohol increases vision acuity	' .
B) An increase in altitud	de decreases the adverse eff	ect of alcohol.
C) Judgment and decis alcohol.	sion-making abilities can be a	dversely affected by even small amounts of
40.	J31	COM
Hypoxia is the result of	which of these conditions?	
A) Excessive oxygen in	the bloodstream.	
B) Insufficient oxygen r	eaching the brain.	
C) Excessive carbon di	ioxide in the bloodstream.	
41. F	H843	СОМ
(Refer to figure 30.) Whorocedure?	nat minimum navigation equip	oment is required to complete the VOR/DME-A
A) One VOR receiver.		
B) One VOR receiver a	and DME.	
C) Two VOR receivers	and DME.	
42.	B10	COM
Pilots are not authorize	ed to land an aircraft from an i	nstrument approach unless the
	· ·	ribed in the approach procedure being used.
B) flight visibility and ceused.	eiling are at, or exceeds the n	ninimums prescribed in the approach being
C) visual approach slop	be indicator and runway refer	ences are distincly visible to the pilot.
43.	J16	COM
Which is true regarding	the use of a Instrument Dep	arture Procedure (DP) chart?
A) At airfields where DI	P's have been established, D	P usage is mandatory for IFR departures.
B) To use a DP, the pilodeparture.	ot must possess at least the t	textual description of the approved standard
C) To use a DP, the pildeparture.	ot must possess both the tex	tual and graphic form of the approved standard
44.	J35	COM

` •	55) En route on V468 S intersection is	from BTG VORTAC to YKM VORTAC, the minimum en route
45.	J15	COM
-	ional aids which are r t. t.	ways, ROUTE OF FLIGHT portion of an IFR flight plan should no more than
46.		H983 COM
An airplane desc	cends to an airport un	der the following conditions:
Cruising altitude	-	6,500 ft
Airport elevation		700 ft
Descends to		800 ft AGL
Rate of descent		500 ft/min
Average true air	speed	110 kts
True course		335°
Average wind ve	elocity	060° at 15 kts
Variation		3°W
Deviation		+2°
Average fuel cor	nsumption	8.5 gal/hr
Determine the a descent.	pproximate time, com	pass heading, distance, and fuel consumed during the
A) 10 minutes, 3	348°, 18 NM, 1.4 gallo	ns.
B) 10 minutes, 3	855°, 17 NM, 2.4 gallo	ns.
C) 12 minutes, 3	346°, 18 NM, 1.6 gallo	ns.
47.	H983	СОМ
	52 miles, are 6 miles total correction angle	off course, and have 118 miles yet to fly. To converge on your would be
-,		

48.		H982	COM
GIVEN:			
True course		105°	
True heading		085°	
True airspeed		95 kts	
Groundspeed		87 kts	
Determine the wind di	rection and speed.		
A) 020° and 32 knots.			
3) 030° and 38 knots.			
C) 200° and 32 knots.			
49.	H981	СОМ	
True course measurer the midpoint of the cou A) values of isogonic I B) angles formed by is	nents on a Sectional Aeronau	tical Chart should be nt. ide vary from point t	o point.
A) an airport restricted	J37 int 6) Mosier Airport is to use by private and recreati stage field within restricted air port.	•	
51.	J37	COM	
		ne is most likely	
A) an antenna top at 1 B) the maximum eleva	J37 int 2) The 16 indicates ,600 feet AGL. Ition figure for that quadrangle sector altitude for that quadran		
53.	J37	COM	

•	oint 6) The Class C airspace at I he surface upward has a ceiling d 3,000 feet MSL.	•	nd Internation	al (OAK)
` .	J37 pint 4) The terrain at the obstruction roximately how much higher that			utheast of the
	H989 a radiobeacon. If the magnetic h earing TO that radiobeacon wou		d the relative b	earing is
56. If the relative bearing station would be A) 12 minutes. B) 15 minutes. C) 18 minutes.	H983 changes from 090° to 100° in 2	COM .5 minutes of elaps	sed time, the ti	me to the
57. GIVEN: Wingtip bearing chan Time elapsed betwee True airspeed The distance to the s A) 36 NM. B) 57.5 NM.	en bearing change		H983 5° 5 min 115 kts	COM
58.	H831	COM		

•	Using instrument g ht ahead, it will intercep	roup 3, if the aircraft makes a 180° turn to the left and the tradial?
A) 135 radial.		
3) 270 radial.		
C) 360 radial.		
59.	J35	СОМ
•	oment is required to ider	om YKM VORTAC to BTG VORTAC, what minimum ntify ANGOO intersection?
3) One VOR red	ceiver and DME.	
C) Two VOR red		
60.	A20	COM
A pilot convicted written report to		nse involving alcohol or drugs is required to provide a
A) nearest FAA	Flight Standards Distric	t Office (FSDO) within 60 days after such action.
B) FAA Civil Ae	romedical Institute (CAN	II) within 60 days after the conviction.
C) FAA Civil Av	iation Security Division	(AMC-700) within 60 days after such action.
61.	B11	COM
	cumulative time that an eattery must be recharged	emergency locator transmitter may be operated before the d is
A) 30 minutes.		
B) 45 minutes.		
C) 60 minutes.		
62.	B11	СОМ
Which is require	ed equipment for powere	ed aircraft during VFR night flights?
A) Flashlight wit	th red lens, if the flight is	for hire.
B) An electric la	nding light, if the flight is	s for hire.
C) Sensitive alti	meter adjustable for bar	ometric pressure.
63.	B08	COM
What altimeter s	setting is required when	operating an aircraft at 18,000 feet MSL?
A) Current repo	rted altimeter setting of	a station along the route.
•	ting at the departure or	destination airport.
C) 29.92 Inches	s Hg.	

B13	COM
with an Airworthiness Directi	ve is the responsibility of the
and the FAA certificated mec	hanic assigned to that aircraft.
of that aircraft.	
of that aircraft.	
R08	COM
ve way?	namengine airpiane approaching from the left.
alter course to the right.	
ngle-engine airplane should g	ive way; the other airplane is to the left.
ultiengine airplane should giv	e way; the single-engine airplane is to its right.
G11	COM
tion of an aircraft accident be	made to the NTSB if there was substantial
H961	СОМ
Special METAR weather ob	servation for KBOI?
Z 32005KT 1 1/2SM RA BR (OVC007 17/16 A2990 RMK RAB12
curing two-tenths of the sky; ra	ain began at 1912Z.
tructing visibility; rain began a	at 1812Z.
t at 1200 feet AGL.	
H961	СОМ
ning the radar weather report	(SD) for KOKC?
N++/+ 86/40 164/60 199/115	15W L2425 MT 570 AT 159/65 2
THIS CELL	
ells with tops at 11,500, 40,00	
	•
s of the cells is 57,000 feet lo	cated 65 NM southeast of the station.
I61	COM
	from Constant Pressure Analysis Charts?
atures alott.	
	with an Airworthiness Direction of the FAA certificated mediant the FAA certificated mediant that aircraft. B08 Bengine airplane observes a raye way? Calter course to the right. Calter course airplane should give the should give the service of the service of the sky; raye tructing visibility; rain began at at 1200 feet AGL. H961 Ching the radar weather report the service of the service o

,	ence and icing cond and obstructions to	
70.	164	СОМ
High-Level Signific A) Cirriform clouds B) Cumulonimbus	ant Weather Progn , light to moderate t clouds, icing, and n	within an area enclosed by small scalloped lines on a U.S. ostic Chart? curbulence, and icing. noderate or greater turbulence. louds, moderate to severe turbulence, and icing.
71.	I58	COM
Dashed lines on a A A) weak. B) strong. C) unstable.	Surface Analysis C	hart, if depicted, indicate that the pressure gradient is
72.	I58	COM
A) Surface Analysis B) Constant Pressu	s Chart. ure Analysis Chart.	of locating observed frontal positions and pressure centers?
C) Weather Depicti	ion Chart.	
73.	159	СОМ
When total sky cov A) top of the lowes B) base of the lowe C) base of the high	t layer. est layer.	ed, the height shown on the Weather Depiction Chart is the
74.	l28	СОМ
A) near warm or sta B) when the wind v	near is commonly en ationary frontal acti relocity is stronger to perature inversion a	vity.
75.	I28	СОМ
turbulent air curren	ts will usually be er	
nj icewalu siue Wil	en flying with a tail	WIIIU.

B) leeward side	when flying into the win	d.
C) windward side	e when flying into the w	ind.
76.	127	COM
		nass moving over a warm surface?
•	louds, turbulence, and p	•
•	louds, turbulence, and (•
C) Stratiform clo	uds, smooth air, and po	or visibility.
77.	l23	СОМ
Why does the wi	nd have a tendency to	flow parallel to the isobars above the friction level?
A) Coriolis force	tends to counterbalance	e the horizontal pressure gradient.
B) Coriolis force	acts perpendicular to a	line connecting the highs and lows.
C) Friction of the	air with the Earth defle	ects the air perpendicular to the pressure gradient.
78.	H953	COM
		pressure area in the Northern Hemisphere is
•	e and is caused by des	
	I is caused by Coriolis f	-
	e and is caused by Cor	
79.	H953	COM
		rom high-pressure areas to low-pressure areas?
A) Coriolis force.		rom mgm procedure areas to lew procedure areas.
B) Surface friction		
C) Pressure grad		
80.	123	COM
	•	ern Hemisphere, you experience a continuous left crosswind ystem. This indicates that you
A) are flying tow	ard an area of generally	y unfavorable weather conditions.
B) have flown fro	om an area of unfavoral	ole weather conditions.
C) cannot deterr	nine weather conditions	s without knowing pressure changes.
81.	128	СОМ
Convective curre A) light. B) moderate.	ents are most active on	warm summer afternoons when winds are
,		

C) strong.			
82.	125	COM	
What is the approand the dewpoint A) 3,000 feet MSI B) 4,000 feet MSI C) 6,000 feet MSI	is 1 °C? L. L.	cumulus clouds if the temperature at 2,000 feet MSL is 10 °	C.
83.	125	COM	
If clouds form as clouds will be	a result of very stab	e, moist air being forced to ascend a mountain slope, the	
A) cirrus type with	n no vertical develop	ment or turbulence.	
B) cumulus type v	with considerable ve	rtical development and turbulence.	
C) stratus type wi	th little vertical deve	lopment and little or no turbulence.	
84.	125	COM	
What determines ascend?	the structure or type	e of clouds which will form as a result of air being forced to	
A) The method by	y which the air is lifte	ed.	
B) The stability of	the air before lifting	occurs.	
C) The relative hu	umidity of the air afte	er lifting occurs.	
85.	H951	COM	
Refer to the exce	rpt from the followin	g METAR report:	
KTUS 08004KT 4	ISM HZ 26/04 A299	5 RMK RAE36	
At approximately expected?	what altitude AGL s	hould bases of convective-type cumuliform clouds be	
A) 4,400 feet.			
B) 8,800 feet.			
C) 17,600 feet.			
86.	l26	COM	
Which cloud type A) Cirrus clouds.	s would indicate cor	vective turbulence?	
B) Nimbostratus (clouds.		
C) Towering cum			
87.	l25	COM	
···	120		

The formation of eit upon the	her predominantly	stratiform or predominantly cumuliform clouds is dependent
A) source of lift.		
B) stability of the air	being lifted.	
C) temperature of the	ne air being lifted.	
88.	l31	СОМ
Advection fog has d fog into low stratus A) Nighttime cooling B) Surface radiation C) Wind 15 knots or	clouds? g. n.	al airport during the day. What may tend to dissipate or lift this
89.	l31	СОМ
A situation most cor	nducive to the form	ation of advection fog is
A) a light breeze mo	oving colder air ove	r a water surface.
B) an air mass mov	ing inland from the	coastline during the winter.
C) a warm, moist ai	r mass settling ove	r a cool surface under no-wind conditions.
90.	l31	СОМ
•	restricted to land ar	on fog, and steam fog differ in their formation or location? reas; advection fog is most common along coastal areas;
B) Advection fog de	epens as windspe	ed increases up to 20 knots; steam fog requires calm or very e ground or water cools the air by radiation.
,		ving over a colder surface; advection fog requires cold air produced by radiational cooling of the ground.
91.	l31	COM
Fog produced by fro	ontal activity is a re	sult of saturation due to
A) nocturnal cooling) .	
B) adiabatic cooling		
C) evaporation of p	recipitation.	
92.	l31	COM
Which in-flight haza	rd is most commor	nly associated with warm fronts?
A) Advection fog.		
B) Radiation fog.		
C) Precipitation-indu	uced fog.	

93.	l24	COM
lce pellets enc	ountered during flight norm	nally are evidence that
A) a warm fron	it has passed.	
B) a warm fron	it is about to pass.	
C) there are th	understorms in the area.	
94.	127	COM
Which is true r	egarding a cold front occlu	sion? The air ahead of the warm front
•	an the air behind the overta	_
•	nan the air behind the over	_
C) has the san	ne temperature as the air b	behind the overtaking cold front.
95.	l32	COM
		titudes, the jet stream shifts toward the
•	peed decreases.	induces, the jet stream simte toward the
•	peed increases.	
•	peed increases.	
	,	
96.	132	COM
Which feature	is associated with the tropo	opause?
A) Constant he	eight above the Earth.	
B) Abrupt char	nge in temperature lapse ra	ite.
C) Absolute up	pper limit of cloud formation	1.
97.	l32	COM
		urbulence can sometimes be visually identified in flight by
-	e at flight level.	
•	s of cirrus clouds.	
	outside air temperature.	
,	·	
98.	132	COM
The strength a	nd location of the jet strear	n is normally
A) weaker and	farther north in the summe	er.
B) stronger and	d farther north in the winter	•
C) stronger an	d farther north in the summ	ner.
99.	K02	COM
		

Which type of jetstream can be	e expected to cause the	greater turbulence?
A) A straight jetstream associ	ated with a low-pressure	trough.
B) A curving jetstream associ	ated with a deep low-pre	ssure trough.
C) A jetstream occurring durir	ng the summer at the low	er latitudes.
100	129	COM
100.		
Frost covering the upper surfa		•
A) the airplane to stall at an a	9	
B) the airplane to stall at an a	•	
C) drag factors so large that s	sumcient speed cannot b	e obtained for takeon.
101.	129	COM
Which situation would most lil temperature of	kely result in freezing pre	cipitation? Rain falling from air which has a
A) 32 °F or less into air having	g a temperature of more	than 32 °F.
B) 0 °C or less into air having	a temperature of 0 °C or	more.
C) more than 32 °F into air ha	aving a temperature of 32	2°F or less.
400	10.4	COM
102.	124	COM
Moisture is added to a parcel	•	
A) sublimation and condensa:		
B) evaporation and condensa		
C) evaporation and sublimation	on.	
103.	124	COM
What is indicated if ice pellets	are encountered at 8,00	00 feet?
A) Freezing rain at higher alti	tude.	
B) You are approaching an ai	rea of thunderstorms.	
C) You will encounter hail if y	ou continue your flight.	
104. H	954	СОМ
When conditionally unstable a forecast, one can expect what	•	ntent and very warm surface temperature is
A) Strong updrafts and strato	nimbus clouds.	
B) Restricted visibility near the	e surface over a large ar	ea.
C) Strong updrafts and cumul	onimbus clouds.	
105.	125	COM

• •	•	able air, and very warm surface temperatures?
A) Fog and low stratus		
B) Continuous heavy p		
C) Strong updrafts and	cumulonimbus clouds.	
106.	125	COM
From which measurem	ent of the atmosphere can st	ability be determined?
A) Atmospheric pressu	re.	
B) The ambient lapse r	ate.	
C) The dry adiabatic la	pse rate.	
107.	125	COM
Which would increase	the stability of an air mass?	
A) Warming from below	٧.	
B) Cooling from below.		
C) Decrease in water v	apor.	
108.	125	COM
Which would decrease	the stability of an air mass?	
A) Warming from below	٧.	
B) Cooling from below.		
C) Decrease in water v	apor.	
109.	124	СОМ
Which is true regarding spread	gactual air temperature and c	lewpoint temperature spread? The temperature
A) decreases as the re	lative humidity decreases.	
B) decreases as the re	lative humidity increases.	
C) increases as the rela	ative humidity increases.	
110.	l21	СОМ
What is the standard te	emperature at 10,000 feet?	
A) -5 °C.		
B) -15 °C.		
C) +5 °C.		
111.	l21	СОМ
Every physical process	of weather is accompanied b	by or is the result of

A) a heat exchange.			
B) the movement of air.			
C) a pressure differential.			
112.	I21	СОМ	
Which conditions are favora	able for the format	tion of a surface based temperatu	re inversion?
A) Clear, cool nights with ca	alm or light wind.		
B) Area of unstable air rapid	dly transferring he	eat from the surface.	
C) Broad areas of cumulus	clouds with smoo	th, level bases at the same altitud	le.
113.		122	СОМ
GIVEN:			
Pressure altitude		12,000 ft	
True air temperature		+50 °F	
From the conditions given,	the approximate o	density altitude is	
A) 11,900 feet.			
B) 14,130 feet.			
C) 18,150 feet.			
114.	I30	COM	
		n intense radar echoes before any	y attempt is made to
fly between these thunders	torms?		
A) 20 miles.			
B) 30 miles.			
C) 40 miles.			
115.	I30	COM	
Hail is most likely to be ass	ociated with		
A) cumulus clouds.			
B) cumulonimbus clouds.			
C) stratocumulus clouds.			
116.	I30	COM	
Which statement is true cor	ncerning the haza	rds of hail?	
A) Hail damage in horizonta	al flight is minimal	due to the vertical movement of h	ail in the clouds.
B) Rain at the surface is a r	eliable indication	of no hail aloft.	
C) Hailstones may be enco	untered in clear a	ir several miles from a thundersto	rm.

117.	123	COM	
In the Northern He A) right by Coriolis B) right by surface C) left by Coriolis f	friction.	ted to the	
A) CG is too far rea B) CG is too far rea	H940 normal recovery from spins arward, and rotation is arou arward, and rotation is arou before the stall is fully deve	nd the CG.	
119. If an airplane is loa A) vertical axis. B) lateral axis. C) longitudinal axis		COM nge, it will tend to be unstable about its	
	de, one can expect to desc	COM s clouds and is shielded from the Sun, and if n end	0
A) will not stretch. B) is nearly three t	H404 Ion rope has over manila ro imes as strong. o snap back if it breaks.	COM pe is that it	
A) should be a ma B) can be consider	H404 ware that drag ropes constr ximum of 100 feet long and red safe because they will rectricity when contacting por	used only in gas balloons.	ney are

123.	O257	COM	
While in flight, id caused by	ce begins forming on the outs	side of the fuel tank in use. This wo	uld most likely be
A) water in the f	uel.		
B) a leak in the	fuel line.		
C) vaporized fue	el instead of liquid fuel being	drawn from the tank into the main b	ourner.
124.		J08	СОМ
(Refer to figure GIVEN:	52, point 2)		
Sacramento Exc	ecutive (SAC) tower reports v	wind 290 at 10 kts	
Highest balloon	flight altitude	1,200 MSL	
If you depart for what ATC requi	_	SAC airport (point 2), which respon	se best describes
	th will require communication nento Approach Control.	s with Sacramento Executive (SAC	c) control tower and
B) You must cor	mmunicate with Sacramento	Approach Control because you will	enter the Alert Area
C) You will have	e to contact Sacramento App	roach Control.	
125.	O150	COM	
To perform a no	ormal descent in a gas balloo	n, it is necessary to release	
A) air.			
B) gas.			
C) ballast.			
126.	H439	COM	
The term `to we	igh off` as used in ballooning	means to determine the	
A) standard wei	ght and balance of the balloc	n.	
B) neutral buoya	ancy by taking weight off at la	aunch.	
C) amount of ga	as required for an ascent to a	preselected altitude.	
127.	O261	COM	
One means of v	rertical control on a gas ballo	on is	
A) by using the	rip panel rope.		
B) valving gas o	or releasing ballast.		
C) opening and	closing the appendix.		
128.	O30	СОМ	

The weigh-off procedu	ure is useful because	e the
A) pilot can adjust the	altimeter to the corre	ect setting.
B) ground crew can as	ssure that downwind	obstacles are cleared.
C) pilot will learn what	t the equilibrium cond	ditions are prior to being committed to fly.
129.	H227	СОМ
A written test has valid		COIVI
A) yields consistent re	•	
B) samples liberally w		asured.
	_	to measure and nothing else.
100	11007	COM
130.	H227	COM
A written test which ha	•	nich
A) yields consistent reB) measures small dif		average of students
•		to measure and nothing else.
C) actually ineasures	what it is supposed t	o measure and nothing else.
131.	H214	COM
Probably the greatest	single barrier to effe	ctive communication is the
A) use of inaccurate s	tatements.	
B) use of abstractions	by the communicate	or.
C) lack of a common of	core of experience be	etween communicator and receiver.
132.	H213	COM
The effectiveness of odegree of	communication betwe	een the instructor and the student is measured by the
A) motivation manifes	ted by the student.	
B) similarity between t	the idea transmitted	and the idea received.
C) attention the stude	nt gives to the instru	ctor during a lesson.
133.	H212	СОМ
When under stress, no	ormal individuals usu	ually react
A) with marked chang	jes in mood on differe	ent lessons.
B) with extreme overc	ooperation, painstak	ing self-control, and laughing or singing.
C) by responding rapidraining.	dly and exactly, ofter	n automatically, within the limits of their experience and
134.	H211	СОМ

When a student us mechanism known		dequate performance, it is an indication of the defense
A) aggression.		
B) resignation.		
C) rationalization.		
135.	H211	COM
Although defense r they	nechanisms can serve a	useful purpose, they can also be a hindrance because
A) alleviate the cau	se of problems.	
B) can result in del	usional behavior.	
C) involve self-dece	eption and distortion of r	eality.
136.	H233	COM
Faulty performance	e due to student overcon	fidence should be corrected by
A) high praise whe	n no errors are made.	
B) increasing the st	tandard of performance	for each lesson.
C) providing strong	, negative evaluation at	the end of each lesson.
137.	H233	COM
What should an ins confidence?	structor do if a student's	slow progress is due to discouragement and lack of
A) Assign subgoals	which can be attained r	nore easily than the normal learning goals.
B) Emphasize the r	negative aspects of poor	performance by pointing out the serious consequences.
C) Raise the perfor standards.	mance standards so the	student will gain satisfaction in meeting higher
138.	H233	COM
		suspected of not fully understanding the principles can correctly perform the task?
A) Require the stud	dent to apply the same e	lements to the performance of other tasks.
B) Require the stud	dent to repeat the task, a	s necessary, until the principles are understood.
C) Repeat demons	trating the task as neces	sary until the student understands the principles.
139.	H204	COM
	g at which the student b blocks of learning is calle	ecomes able to associate an element which has been ed the level of
,		

C) correlation.		
140.	H203	COM
Motivations in the for A) bored. B) discouraged.	orm of reproof and threat	s should be avoided with all but the student who is
C) overconfident.		
141.	H233	COM
In planning any instr	ructional activity, the inst	ructor's first consideration should be to
•	erall objectives and stan	
•	-	e up the overall objective.
C) establish commo	on ground between the in	structor and students.
142.	H223	COM
-	ion,' lead-off questions s	hould usually begin with
A) 'why'		
B) 'when'		
C) 'where'		
143.	H220	COM
The method of arrar unknown, is one that		m the simple to complex, past to present, and known to
A) the instructor sho	ould avoid.	
	hought pattern departure	
C) indicates the rela	ationship of the main poir	its of the lesson.
144.	H220	COM
When teaching from	the KNOWN to the UNF	KNOWN, an instructor is using the student's
A) anxieties and ins		
,	nces and knowledge.	
C) previously held o	pinions, both valid and in	ivalid.
145.	H238	COM
Students quickly be	come apathetic when the	∍y
•	bjective toward which the	•
,	als that are difficult, but p	
C) recognize that th	eir instructor is poorly pr	epared to conduct the lesson.

146.		H985	COM
(Refer to figure 52, point 1)			
GIVEN:			
Departure point		Georgetown Airport (Q61)	
Departure time		0637	
Winds aloft forecast (FD) at	t your altitude	1008	
At 0755, the balloon should	be		
A) over Auburn Airport (AU	N).		
B) over the town of Auburn.			
C) slightly west of the town	of Garden Valley.		
147.	H979	COM	
		(LHM) is departed at 0630, and at 0 ⁻	730 the
A) 082° at 6 knots.	,	, , , , , , , , , , , , , , , , , , , ,	
B) 082° at 17 knots.			
C) 262° at 11 knots.			
,			
148.	B11	COM	
Operation of a balloon, duri lighted with	ng the period of sunset to s	unrise, requires that it be equipped	and
A) red and green position lig	ghts.		
B) a steady aviation white p	osition light and a red or wl	nite anticollision light.	
C) approved aviation red ar	nd white lights.		
149.	O220	COM	
On a balloon equipped with	a blast valve, the blast valv	ve is used for	
A) climbs only.			
B) emergencies only.			
C) control of altitude.			
150.	O277	COM	
What should a pilot do if a s	small hole is seen in the fab	ric during inflation?	
A) Continue the inflation an	d make a mental note of the	e location of the hole for later repair.	
B) Instruct a ground crewminflation.	ember to inspect the hole, a	and if under 5 inches in length, conti	nue the
C) Consult the flight manua for the balloon being flown.	I to determine if the hole is	within acceptable damage limits est	ablished

151.	O220	COM
,		eeze.
152. The best way to determin A) burner sound. B) tank quantity. C) fuel pressure gauge.	O170 ne burner BTU availability is the	COM
153. Propane is preferred ove A) it has a higher boiling p B) it has a lower boiling p C) butane is very explosi	oint.	COM because
154. For what reason is methand) As a fire retardant. B) As an anti-icing addition C) To reduce the tempera		COM ot air balloons?
A) prevent ice from forming B) warm the fuel tanks fo	•	COM ns is to
156. Why is it considered a go A) To check for fuel line l B) It creates an immediat C) To ensure the new tar	e source of lift.	COM or changing fuel tanks?
157.	O270	COM

•	able, within which tempe pressure for burner oper	rature range will propane fuel vaporize sufficiently to ration during flight?
A) 0 °F to 30 °F.		5 5
, В) 10 °F to 30 °F.		
C) 30 °F to 90 °F.		
158.	J37	COM
(Refer to figure 54, p International Airport	•	magenta circle depicted around San Francisco
A) the outer segmen	t of Class B airspace.	
•	ich an appropriate transp rface to 10,000 feet MSL	oonder must be used from outside of the Class B
C) a Mode C veil booremains below 8,000	•	may penetrate without a transponder provided it
159.	J37	COM
•		om Byron Airport (C83) with a northeast wind, you ss D airspace and flight visibility is approximately 2 1/2
A) contact Livermore	e ATCT on 119.65 and a	dvise of your intentions.
B) stay below 1,200	feet to remain in Class G	3 .
C) stay below 700 fe	et to remain in Class G	and land.
160.	O220	COM
A) Turn the main bu	rner OFF.	velope overtemperature condition occurs?
B) Land as soon as	•	
C) Throw all unnece	ssary equipment overbo	ard.
161.	O220	COM
Which is the proper	way to detect a fuel leak	?
A) Sight.		
B) Use of smell and	sound.	
C) Check fuel pressu	ure gauge.	
162.	O170	COM
	be appropriate if a small sufficient fuel to reach a	leak develops around the stem of the tank valve, and suitable landing field?
A) Warm the tank va	llve leak with your bare h	and.

,	ank handle to the full-op then slowly reopen to r	•
163.	O170	СОМ
To respond to a sma one should	II leak around the stem	of a Rego blast valve in a single-burner system balloon,
A) turn off the fuel sy	stem and make an imn	nediate landing.
B) continue operatino appears.	g the blast valve making	g very small quick blasts until a good landing field
	g the blast valve, makir itil a good landing field	ng long infrequent blasts and opening the handle slightly appears.
164.	H414	COM
landing. When should A) Prior to ground co	d the deflation port (rip	
,	endola contacts the surf	
C) As the balloon ski	ps off the surface the fi	rst time and the last of the ballast has been discharged.
165.	H414	COM
Which precaution sho air is turbulent?	ould be exercised if cor	nfronted with the necessity of having to land when the
A) Land in the center	of the largest available	e field.
B) Throw propane ed	quipment overboard imi	mediately prior to touchdown.
C) Land in the trees t	to absorb shock forces	, thus cushioning the landing.
166.	O30	COM
If you are over a hea minutes of fuel remai		no open fields in the vicinity and have only about 10
	flying in hope that you	•
		ne nearest landing field is.
C) land in the trees w	vnile you nave sufficien	t fuel for a controlled landing.
167.	O265	COM
When landing a ballo	oon, what should the oc	ccupant(s) do to minimize landing shock?
A) Be seated on the	floor of the basket.	
B) Stand back-to-bac	ck and hold onto the loa	ad ring.
C) Stand with knees	slightly bent facing the	direction of movement.

168.	030	COIVI
The practice of allowi	ing the ground crew to	lift the balloon into the air is
A) a safe way to redu	uce stress on the envelo	ope.
B) unsafe because it	can lead to a sudden la	anding at an inopportune site just after lift-off.
•		ce when obstacles must be cleared shortly after lift-off.
•		·
169.	O263	COM
t may be possible to	make changes in the d	lirection of flight in a hot air balloon by
A) using the maneuve	ering vent.	
B) operating at differe	ent flight altitudes.	
C) flying a constant a	atmospheric pressure g	radient.
170.	H226	COM
Which is true about a	an instructor's critique o	f a student's performance?
A) It must be given in	ı written form.	
3) It should be subject	ctive rather than objecti	ive.
C) It is a step in the le	earning process, not in	the grading process.
171.	H226	COM
When an instructor c	ritiques a student, it sho	ould always be
A) done in private.		
B) subjective rather the	han objective.	
C) conducted immedi	iately after the student's	s performance.
172.	H219	COM
To enhance a studen	it's acceptance of furthe	er instruction, the instructor should
A) keep the student in	nformed of his/her prog	ress.
3) continually prod th	ne student to maintain n	notivational levels.
C) establish performa	ance standards a little a	above the student's actual ability.
173.	H226	COM
The purpose of a criti	ique is to	
A) identify only the st	tudent's faults and weal	knesses.
B) give a delayed eva	aluation of the student's	s performance.
C) provide direction a	and guidance to raise th	ne level of the student's performance.
174	11007	
174. Es ha affactiva in an	H227	COM
i o de ettective in ora	il quizzing during the co	onduct of a lesson, a question should

A) center on only one idea.		
B) include a combination of	where, how, and why.	
C) be easy for the student a	t that particular stage of training	
175 .	H227	COM
A written test is said to be co	omprehensive when it	
A) yields consistent results.		
B) includes all levels of diffic	culty.	
C) samples liberally whatever	er is being measured.	
176.	H213	COM
To communicate effectively,	instructors must	
A) utilize highly organized no	otes.	
B) display an authoritarian a	ttitude.	
C) display a positive, confide	ent attitude.	
177 .	H227	COM
Proper quizzing by the instru	uctor during a lesson can have v	which of these results?
A) It identifies points which r	need emphasis.	
B) It encourages rote respor	nse from students.	
C) It permits the introduction	of new material which was not	covered previously.
178.	H212	COM
Which would most likely indi	cate that a student is reacting a	bnormally to stress?
A) Thinks and acts rapidly.		
B) Extreme overcooperation		
C) Extreme sensitivity to sur	roundings.	
179.	H211	COM
Taking physical or mental fli	ght is a defense mechanism tha	t students use when they
A) want to escape from frust	trating situations.	
B) become bewildered and I	ost in the advanced phase of tra	aining.
C) attempt to justify actions	that otherwise would be unacce	ptable.
180.	H211	COM
When a student asks irrelev		
indication of the defense me	ant questions or refuses to parti echanism known as	cipate in class activities, it usually is an

B) resignation.		
C) substitution.		
181.	H211	COM
When students become display which defense r		believe it possible to work further, they usually
A) Aggression.		
B) Resignation.		
C) Rationalization.		
182.	H211	СОМ
A student who is daydre	eaming is engaging in the def	iense mechanism known as
A) flight.		
B) substitution.		
C) rationalization.		
183.	H212	COM
The instructor can coun	nteract anxiety in a student by	r
A) treating student fear	as a normal reaction.	
B) allowing the student	to select tasks to be performe	ed.
C) continually citing the	unhappy consequences of fa	aulty performance.
184.	H210	COM
Before a student can co	oncentrate on learning, which	of these human needs must be satisfied first?
A) Social needs.		
B) Safety needs.		
C) Physical needs.		
185.	H228	СОМ
	ng the use of visual aids? The	
	nphasize key points in a less	
•	nolding the student's attention	
C) should not be used t	to cover a subject in less time	; .
186.	H228	СОМ
	in the teaching/learning proce	
	should require no explanation	
	learning outcomes to be achie	
-	=	

C) selected prior	to developing and organizin	g the lesson plan.
A) Presenting a to B) Covering up in	opic or maneuver in great de structor mistakes or bluffing	COM likely result in students becoming frustrated? etail. when the instructor is in doubt. tisfactory without explanation.
A) Invent student B) Try to reduce t		
A) No. Some stud B) Yes. Faulty pe C) Yes. The stud	dents have an innate, natura rformance may soon appea	COM apt student who makes very few mistakes? I aptitude for flight. If due to student overconfidence. I aptitude to student overconfidence. I aptitude for flight. I aptitude flight flight. I aptitude flight
but fails to act at A) lacks self-conf B) will be unable	the proper time, the student	f flying.
A) making each lo B) easing the sta	esson a pleasurable experiendards for an apprehensive	
A) student's back	H219 dent performance and accor ground and past experience goals that were established	

C) student's actua	al performance as compared	to an arbitrary standard.
193.	H235	COM
A) the need to dis B) setting the lead C) the mutual ack	sregard the student's persona rning objectives very high so knowledgement that they are	ructor and the student should be based upon all faults, interests, or problems. that the student is continually challenged. important to each other and both are working toward
the same objectiv	/e.	
194.	H235	COM
Which is true rega	arding professionalism as an	instructor?
A) Anything less	than sincere performance des	stroys the effectiveness of the professional instructor.
B) To achieve pro practices.	ofessionalism, actions and de	cisions must be limited to standard patterns and
, –	•	encompass all of the qualifications and rue professionalism can exist.
195.	H221	COM
Which should be	the first step in preparing a le	ecture?
A) Organizing the	e material.	
B) Researching th	he subject.	
C) Establishing th	ne objective and desired outco	ome.
196.	H221	COM
What is one adva	intage of a lecture?	
A) It provides for	student participation.	
B) Many ideas ca	n be presented in a short tim	e.
C) Maximum atta	inment in all types of learning	outcomes is possible.
197.	H220	СОМ
In developing a le	esson, the instructor must log	ically organize explanations and demonstrations to
A) understand the	e separate items of knowledg	e.
B) understand the	e relationships of the main po	ints of the lesson.
C) learn by rote s	o that performance of the pro	ocedure will become automatic.
198.	H216	СОМ
What is the prope teaching process		ructor should employ the four basic steps in the

A) Explanation, dem	onstration, prac	ctice, and evaluation.		
B) Explanation, trial	and practice, e	valuation, and review	'.	
C) Preparation, pres	sentation, applic	ation, and review and	d evaluation.	
199.	H238		СОМ	
What is the primary periods?	consideration ir	n determining the leng	gth and frequency o	of flight instruction
A) Fatigue.				
B) Mental acuity.				
C) Physical condition	ning.			
200.	L05		COM	
Hazardous attitudes	which contribu	te to poor pilot judgm	ent can be effective	ely counteracted by
A) taking meaningfu	I steps to be mo	ore assertive with atti	tudes.	
B) early recognition	of hazardous th	oughts.		
C) redirecting that ha	azardous attitud	le so that appropriate	e action can be take	en.
201.	J37		COM	
	•	on drifts over the towr remain the same, aft		_
A) with no radio abo aboard.	ard, must be ab	oove 2,900 feet MSL	and must have an o	pperating transponder
B) must remain abov	ve 600 feet MSI	for national security	reasons.	
C) with no radio abo	ard, must be at	oove 2,900 feet MSL.		
202.		H979		СОМ
(Refer to figure 54, p	point 3)			
GIVEN:				
Departure point		Meadowlark Airpoi	rt	
Departure time		0710		
Wind		180°		8 kts
At 0917 the balloon	should be			
A) east of VINCO in	tersection.			
B) over the town of E	Brentwood.			
C) 3 miles south of t	he town of Brer	ntwood.		
203.	H983		СОМ	

	•	al Airport (LHM) and track a true course of 1 hour 20 minutes of flight would be over
A) Foresthill.		
B) Clipper Gap.		
C) Weimar.		
204.	J37	COM
	d of 230° at 10 knots. Wha	Airport (Q84) and drifts for a period of 1 t maximum elevation figure would assure nt?
205.	J37	COM
southwesterly toward the dep	icted obstruction. If the alti	versity Airport (0O5) and drifts south- meter was set to the current altimeter n is to clear the obstruction by 500 feet
•		
C) 881 feet MSL.		
206.	J37	COM
(Refer to figure 53, point 4) Wwind of 8 knots, you	hile drifting above the Mer	ndota Airport (Q84) with a northwesterly
A) are required to contact ATC	C on frequency 122.9 Mhz	
B) should remain higher than	2,000 feet AGL until you a	re at least 8 NM southeast of that airport.
C) will be over Firebaugh Airp	ort (Q49) in approximately	1 hour.
207.	A24	COM
A person who makes applicat balloon with an airborne heate		certificate with a balloon rating, using a
A) authorized both airborne he	eater or gas balloon.	
B) limited to balloon, with an a	airborne heater.	
C) authorized to conduct grouballoon.	ind and flight training in a b	palloon with an airborne heater or gas
208.	J25	COM

What single reference when the control with the control w		garding a volcanic eruption, that is occurring or
A) In-Flight Weatl	her Advisories.	
B) Terminal Area	Forecasts (TAF).	
C) Weather Depic	ction Chart.	
209.	I 26	COM
The conditions ne	ecessary for the formation of	stratiform clouds are a lifting action and
A) unstable, dry a	air.	
B) stable, moist a	iir.	
C) unstable, mois	et air.	
210.	H427	COM
What is the weigh	nt of propane?	
A) 4.2 pounds pe	r gallon.	
B) 6.0 pounds pe	r gallon.	
C) 7.5 pounds pe	r gallon.	
211.	H1022	COM
•	ius of turn is 175 feet at 40 M 1PH while maintaining a con:	IPH, what would the radius of turn be if the TAS is stant angle of bank?
A) 350 feet.	•	
B) 525 feet.		
C) 700 feet.		
212.	H1067	СОМ
In which situation for wind velocity (cely to occur if inadequate airspeed allowance is made
A) During the app	proach to a landing.	
B) While thermall	ing at high altitudes.	
C) During takeoff	and climb while on aerotow.	
213.	H1030	COM
A glide ratio of 22	2:1 with respect to the air ma	ss will be
A) 11:1 in a tailwi	nd and 44:1 in a headwind.	
B) 22:1 regardles	s of wind direction and spee	d.
C) 11:1 in a head	wind and 44:1 in a tailwind.	
214.	H1035	СОМ

THE TEASON TO	retairing water ballast wrille ti	ierriais are strong, is to
A) decrease for	rward speed.	
B) decrease cr	ruise performance.	
C) increase cru	uise performance.	
215.	H1030	COM
Minimum sink	speed is the airspeed which re	sults in the
A) least loss of	f altitude in a given time.	
B) least loss of	f altitude in a given distance.	
C) shallowest	glide angle in any convective s	ituation.
216.	H1024	COM
	airspeed at which abrupt and flider is called the	full deflection of the controls would not cause structural
A) speed-to-fly	<i>'</i> .	
B) maneuverin	ig speed.	
C) never-exced	ed speed.	
217.	H1066	COM
Which is true r	egarding minimum control airs	peed while thermalling? Minimum control airspeed
A) may coincid	de with minimum sink airspeed.	
B) is greater th	nan minimum sink airspeed.	
C) never coinc	ides with minimum sink airspe	ed.
218.	H1033	COM
In regard to the If the CG is too	-	d its effect on glider spin characteristics, which is true?
A) aft, a flat sp	in may develop.	
B) forward, spi	in entry will be impossible.	
C) aft, spins w	ill degenerate into CG high-spe	ed spirals.
219.	H1086	COM
Select the true	statement concerning oxygen	systems that are often installed in sailplanes.
A) Most civiliar	n aircraft oxygen systems use l	ow-pressure cylinders for oxygen storage.
B) When aviati substitute.	ion breathing oxygen is not ava	ailable, hospital or welder's oxygen serves as a good
C) In case of a oxygen supply		en system, a bailout bottle may serve as an emergency

220.	H1013	COM
The purpose o	f wing spoilers is to decrease	
A) the drag.		
B) landing spe	ed.	
C) the lift of the	e wing.	
221.	H1026	СОМ
	th wings level. What will the co	ermal to the next, the airspeed is increased to the inventional magnetic compass indicate while the
A) A turn towa	rd the south.	
B) A turn towa	rd the north.	
C) Straight flig	ht on a heading of 090°.	
222.	H933	COM
	rith the wings level. What will the reasing?	nermal to the next, the airspeed is increased to the ne conventional magnetic compass indicate while the
B) A turn towa	rd the north.	
C) Straight flig	ht on a heading of 270°.	
223.	H1025	COM
Which is true o	concerning total energy compe	nsators? The instrument
A) responds to	up and down air currents only	
B) will register	climbs that result from stick the	ermals.
C) reacts to cli	mbs and descents like a conve	ntional rate-of-climb indicator.
224.	H1025	COM
The advantage	e of a total energy compensato	r is that this system
A) includes a s	speed ring around the rim of the	e variometer.
B) adds the eff	ect of stick thermals to the total	al energy produced by thermals.
C) reduces clir	nb and dive errors on variomet	er indications caused by airspeed changes.
225.	H1038	COM
Which is true r	egarding the assembly of a glid	der for flight?
A) It may be ad	ccomplished by the pilot.	
B) It is not requ	uired by regulations for a glider	pilot to know this.
C) It must be a	ccomplished under the superv	ision of an FAA maintenance inspector.

226.	H1111	COM
With regard to t	wo or more gliders flying in the	same thermal, which is true?
A) All turns show	uld be to the right.	
B) Turns should	be in the same direction as th	e highest glider.
C) Turns should	d be made in the same direction	n as the first glider to enter the thermal.
227.	H1072	COM
What corrective soon while using	_	a landing if the glider pilot makes the roundout too
A) Leave the sp	oilers extended and lower the	nose slightly.
B) Retract the s	poilers and leave them retracte	ed until after touchdown.
C) Retract the s	spoilers until the glider begins to	o settle again, then extend the spoilers.
228.	H1044	COM
The primary cau	use of towline slack during aero	otows is
A) poor coordinate	ation.	
B) acceleration.		
C) positioning the	ne glider too high.	
229.	H1043	COM
During an aerot	ow, is it good operating practic	e to release from a low-tow position?
A) No. The tow	ring may strike and damage th	e glider after release.
•	ine may snap forward and strik	
C) Yes. Low-tov	w position is the correct position	n for releasing from the towplane.
230.	H1041	COM
•	takeoffs in crosswind condition fore the towplane lifts off. The	ns, the glider starts drifting downwind after becoming glider pilot should
A) not correct for	or a crosswind during this part	of the takeoff.
B) crab into the	wind to remain in the flightpath	of the towplane.
C) hold upwind	rudder in order to crab into the	wind and remain in the flightpath of the towplane.
231.	H1053	COM
	eaks when at the steepest seg ing attitude, the pilot should	ment of the climb during a winch launch. To recover
A) relax the bac	k stick pressure to avoid exces	ssive loss of altitude.
B) apply forward	d pressure until the buffeting so	ound and vibration disappear.
C) move the stic	ck fully forward immediately an	d hold it there until the nose crosses the horizon.

232.			B12	COM
GIVEN:				
Glider's maximum certific	cated operating weight		1,140 lb	
Towline breaking strengt	h		3,050 lb	
Which meets the require	ment for one of the safety links?	A breaking stre	ngth of	
A) 812 pounds installed v	where the towline is attached to t	he towplane.		
B) 912 pounds installed v	where the towline is attached to t	he glider.		
C) 2,300 pounds installed	d where the towline is attached to	the glider.		
233.	H1049	COM		
At what point during an a climb?	utotow should the glider pilot est	ablish the maxi	mum pitch attitude	for the
A) Immediately after take	eoff.			
B) 100 feet above the gro	ound.			
C) 200 feet above the gro	ound.			
234.	H1050	COM		
When preparing for an au	utotow with a strong crosswind, v		e glider and towro	pe be
placed?	5			
A) Straight behind the tov	w car.			
B) Obliquely to the line of	f takeoff on the upwind side of th	e tow car.		
C) Obliquely to the line of	f takeoff on the downwind side o	f the tow car.		
005	114054	0014		
235.	H1051	COM	.0	
•	oscillations or porpoising during	a winch launch	1?	
A) Excessive winch spee				
B) Insufficient winch spec				
C) Excessive slack in the	e towline.			
236.	B12	COM		
During aerotow of a glide the use of safety links at	er that weighs 940 pounds, which each end of the rope?	towrope tensile	e strength would re	equire
A) 752 pounds.	·			
B) 1,500 pounds.				
C) 2,000 pounds.				
007	114000	2014		
237.	H1030	COM		

	a strong headwind on a long beed to use is the	final glide or a long glide back to the airport, the
A) best glide spe	ed.	
B) minimum sink	speed.	
C) speed-to-fly p	lus half the estimated winds	peed at the glider's flight altitude.
238.	H1096	COM
Which thermal in	dex would predict the best p	robability of good soaring conditions?
A) -10.		
B) -5.		
C) +20.		
239.	l35	COM
•	i.) With regard to the soundir ling be expected at the time	ngs taken at 1400 hours, between what altitudes could of the sounding?
A) From 2,500 to	6,000 feet.	
B) From 6,000 to	10,000 feet.	
C) From 13,000 t	to 15,000 feet.	
240.	l35	COM
•	•	ng and the line plotted from the surface to 10,000 feet, or instability to take place between these altitudes? Any
A) less than 68 °	F.	
B) more than 68	°F.	
C) less than 43 °	F.	
241.	H1097	СОМ
Which is true reg	arding the effect of fronts or	soaring conditions?
A) Good soaring	conditions usually exist afte	r passage of a warm front.
B) Excellent soar	ring conditions usually exist i	n the cold air ahead of a warm front.
C) Frequently the	e air behind a cold front prov	ides excellent soaring for several days.
242.	H1096	СОМ
A) +5.	dex would predict the best p	robability of good soaring conditions?
B) -5.		
C) -10.		

243.	l35	COM
A thermal column is I Which statement wo		arking lot and the wind is from the south at 12 knots.
A) As altitude is gain	ed, the best lift will be fo	und directly above the parking lot.
B) As altitude is gain	ed, the center of the the	rmal will be found farther north of the parking lot.
C) The slowest rate of	of sink would be close to	the thermal and the fastest rate of sink farther from it.
244.	P12	COM
Critical factors affecti	ing the flight characterist	tics and controllability of an airship are
A) airspeed and pow	er.	
B) static and dynamic	c trim.	
C) temperature and a	atmospheric density.	
245.	P01	СОМ
How does the pilot ki	now when pressure heig	ht has been reached? Liquid in the gas
•	ers will fall below the nor	•
B) manometer will fa	ll and the liquid in the air	r manometer will rise above normal levels.
C) manometer will ris	se and the liquid in the a	ir manometer will fall below normal levels.
246.	P05	COM
Damper valves shou any air forced into the	-	ed during a maximum rate climb to altitude because
A) decrease the volu	me of gas within the env	velope.
B) decrease the purit	ty of the gas within the e	nvelope.
C) increase the amou	unt of air to be exhauste	d, resulting in a lower rate of ascent.
247.	P05	СОМ
The ballonet volume	of an airship envelope v	vith respect to the total gas volume is approximately
A) 15 percent.		
B) 25 percent.		
C) 30 percent.		
248.	P05	COM
When checking gas ր should be	oressure (pressure heigl	nt) of an airship during a climb, the air damper valves
A) opened.		
B) closed.		
C) opened aft and clo	osed forward.	

249.	P11	COM
When operating an airsh locks should not be eng	•	ir valve in the automatic forward position, the aft valved
A) ballonet overinflation	and rupture may occu	ur.
B) the aircraft will enter	an excessive bow-hig	h attitude.
C) the aircraft will enter	an excessive stern-hi	gh attitude.
250.	P04	COM
Maximum headway in a	n airship is possible o	nly under which condition?
A) Slightly nosedown.		
B) Slightly tail down.		
C) Flying in equilibrium.		
251.	P11	COM
Which action is necessar	ary to perform a norma	al descent in an airship?
A) Valve gas.		
B) Valve air.		
C) Take air into the aft b	oallonets.	
252.	P03	COM
If both engines fail while	en route, an airship s	should be
A) brought to a condition	n of equilibrium as soc	on as possible and free-ballooned.
B) trimmed nose-heavy landing site.	to use the airship's ne	egative dynamic lift to fly the airship down to the
C) trimmed nose-light to descent to the landing s	• •	itive dynamic lift to control the angle and rate of
253.	P11	COM
	s 250 pounds heavy v	when the wind is calm, the best landing can usually be
A) in trim.		
B) nose-heavy approxim	nately 20°.	
C) tail-heavy approxima	tely 20°.	
254.	P11	COM
	h-off in the air prior to	lasted forward to overcome a climbing tendency and landing, will be very bow heavy. This condition must

B) discharging forward	d ballast.		
C) dumping fuel from	the forward tanks.		
255.	P11	СОМ	
Which take-off proced	lure is considered to be	most hazardous?	
		on all takeoffs, regardless of wind.	
B) Maintaining only 50	D percent of the maxim	um permissible positive angle of inclination.	
C) Maintaining a negacontrollability.	ative angle of inclination	during takeoff after elevator response is add	equate fo
256.	J42	COM	
(Refer to figure 28) If DSM, what MDA appl A) 1,157 feet. B) 1,320 feet. C) 1,360 feet.		s inoperative during the ILS RWY 31R proce	dure at
257.	J18	COM	
be maintained until A) reaching the FAF. B) advised to begin de	escent.	arance is received. The last assigned altitude	should
258.	J42	COM	
A) DENAY intersection B) glide slope intercept	n.	or the ILS precision approach is located at	
259.	J42	COM	
		R procedure, the glide slope intercept altitude	e is
260.	J42	COM	
(Refer to figure 29) W approach point?	hen approaching the A	TL ILS RWY 8L, how far from the FAF is the	missed

A) 4.8 NM. B) 5.2 NM. C) 12.0 NM.		
261. (Refer to figure 28.) During th slope interception is A) 2,365 feet MSL. B) 2,400 feet MSL. C) 3,000 feet MSL.	J42 ne ILS RWY 31R procedure	COM e at DSM, the minimum altitude for glide
262. Which is true regarding STAF A) used to separate IFR and B) to facilitate transition betw C) used at certain airports to	known VFR traffic. een en route and instrume	COM nt approach procedures.
failure while in VFR condition A) VFR and land as soon as B) VFR and proceed to your	s. In this situation, you sho practicable. flight-plan destination.	COM sperience two-way communications radio ould continue your flight under eto your flight-plan destination.
264. Does the ATC term, 'cruise 3 A) No, this term applies to air B) Yes, it means that any ass C) Yes, in part, it authorizes to pilot's discretion.	plane IFR operations only signed altitude can be vaca	
265. (Refer to figure 55) En route (crossing GYMME intersection A) 6,400 feet. B) 6,500 feet. C) 7,000 feet.		COM AC to LTJ VORTAC, the minimum altitude
266.	J14	COM

When operating an airship under IFR maintained?	with a VFR-on-top clearance, what altitud	e should be
A) The last IFR altitude assigned by A	ATC.	
B) An IFR cruising altitude appropriate	e to the magnetic course being flown.	
C) A VFR cruising altitude appropriate	e to the magnetic course being flown and a	as restricted by ATC.
267. B11	COM	
Operation of a lighter-than-air airship, and lighted with	during the period of sunset to sunrise, red	quires it be equipped
A) position lights.		
B) position lights and aviation red or v	white anticollision light system.	
C) approved aviation red and white lig	ghts.	
268. H765	COM	
Why should gyroplane operations witl avoided?	hin the cross-hatched portion of a Height v	s. Velocity chart be
A) The rotor RPM may build excessiv	ely high if it is necessary to flare at such lo	ow altitudes.
B) Sufficient airspeed may not be ava	ailable to ensure a safe landing in case of a	an engine failure.
C) Turbulence near the surface can d conditions on the rotor system.	lephase the blade dampers causing geom	etric unbalanced
269.	H720	СОМ
(Refer to figures 45 and 46.)		
GIVEN:		
Pressure altitude	4,000 ft	
Ambient temperature	80 °F	
To clear a 50-foot obstacle, a jump ta	keoff would require	
A) more distance than a running take	off.	
B) less distance than a running takeo	ff.	
C) the same distance as a running tal	keoff.	
270.	H720	СОМ
(Refer to figures 45 and 46.)		
GIVEN:		
Pressure altitude	4,000 ft	
Ambient temperature	80 °F	
The takeoff distance to clear a 50-foo	t obstacle is	
A) 1,225 feet for a jump takeoff.		

B) 1,440 feet for a C) less for a runn	a running takeoff. ing takeoff than for a jump t	akeoff.	
A) turbulence and B) blade-tip speed	d altitude. d, which must remain below nt cyclic stick control to con	COM I speed (VNE) of a gyroplane is the speed of sound. spensate for dissymmetry of lift or retreating blade sta	all,
272. (Refer to figure 52 A) the surface. B) 700 feet AGL. C) 1,200 feet AGI	•	COM Class E airspace over University Airport (0O5) is	
A) Taxi to a smoo B) Make a norma		COM tor spin-up, what action should you take? n-up lever.	
A) Avoid abrupt c B) The cyclic stick	H766 atement concerning gyropla ontrol movements when bla k should be held in the neut k should be held slightly aft	ral position at all times.	
A) simultaneously B) simultaneously	H766 ion from pre-rotation to fligh to the same angle of incide but to different angles of incide egree at the same point in the	ncidence.	
gross weight, it is original equipmer	important to know that if ite	COM given in a typical aircraft owner's manual for computirems have been installed in the aircraft in addition to the	_

,	able gross weight is increas	sed.
277.	H705	COM
•		that results in a maximum increase in main rotor a. Which way will the rotor disc tilt?
278.	H703	COM
A) It tends to dip sl B) It gains increase		ces translating tendency? licopter approaches approximately 15 knots in takeoff. er the rotor system reaches approximately 15 knots.
279.	H720	COM
A) higher than stan B) lower than stand	erformance is most adverse idard temperature and low dard temperature and high idard temperature and high	relative humidity. relative humidity.
280.	H720	COM
A) Engine and roto B) Engine and roto	nsity altitude affect rotorcrand refficiency is reduced. refficiency is increased. or drag, which requires mor	
281. As altitude increase A) increase. B) decrease. C) remain the same	H717 es, the VNE of a helicopter e.	COM will
282.	H710	COM
be		orable for carburetor icing, the carburetor heat should
A) adjusted to keep	o the carburetor air tempera	ature gauge indicating in the green arc at all times.

B) OFF for takeoffs, adju arc at all other times.	sted to keep the ca	arburetor air temperature gauge indicating in the green
C) OFF during takeoffs, a		andings; adjusted to keep the carburetor air temperature
gauge indicating in the g	reen arc at all othe	er times.
283.	H706	COM
The primary purpose of t	he tail rotor systen	n is to
A) assist in making coord	dinated turns.	
B) maintain heading duri	ng forward flight.	
C) counteract the torque	effect of the main	rotor.
284.	H705	COM
Can the tail rotor produce	e thrust to the left?	
A) No; the right thrust car	n only be reduced.	, causing tail movement to the left.
B) Yes; primarily so that	hovering turns car	be accomplished to the right.
C) Yes; primarily to coun	teract the drag of	the transmission during autorotation.
285.	H705	COM
If the RPM is low and the	manifold pressure	e is high, what initial corrective action should be taken?
A) Increase the throttle.		
B) Lower the collective p	itch.	
C) Raise the collective pi	itch.	
286.	H705	COM
During level flight, if the r should be made?	manifold pressure	is high and the RPM is low, what initial corrective action
A) Decrease the throttle.		
B) Increase the throttle.		
C) Lower the collective p	itch.	
287.	H745	COM
	_	y occurs during flight could be indicative of a defective
A) main rotor system.		
B) tail rotor system.		
C) transmission system.		
288.	H745	COM
		rations indicate a defective
A) engine.	Tarri iroquorioy vibi	Tations indicate a delective
, ty chighlic.		

B) main rotor syst	em.	
C) tail rotor syster	n.	
289.	H707	COM
•	ngine in a helicopter is more gine in an airplane. This sta	likely to stop due to in-flight carburetor icing than will tement
A) has no basis in	fact. The same type engine	e will run equally well in either aircraft.
B) is true. The free helicopter engine.	•	windmilling (flywheel) effect to be exerted on a
C) is false. The clumalfunctioning co	_	e the load from the helicopter engine under engine
290.	H701	COM
The main rotor bla	ades of a fully-articulated rot	tor system can
A) flap and feathe	r collectively.	
B) flap, drag, and	feather independently.	
C) feather indepe	ndently, but cannot flap or d	lrag.
291.	H709	COM
The main rotor bla	ades of a semirigid rotor sys	item can
A) flap together as	s a unit.	
B) flap, drag, and	feather independently.	
C) feather indepe	ndently, but cannot flap or d	lrag.
292.	H745	COM
Abnormal helicopt component?	ter vibrations in the low-freq	uency range are associated with which system or
A) Tail rotor.		
B) Main rotor.		
C) Transmission.		
293.	H708	COM
What is the prima	ry purpose of the clutch?	
A) It allows the en	gine to be started without d	riving the main rotor system.
B) It provides dise	engagement of the engine fr	om the rotor system for autorotation.
C) It transmits en	gine power to the main rotor	r, tail rotor, generator/alternator, and other accessories.
294.	H708	COM
What is the prima	ry purpose of the freewheel	ing unit?

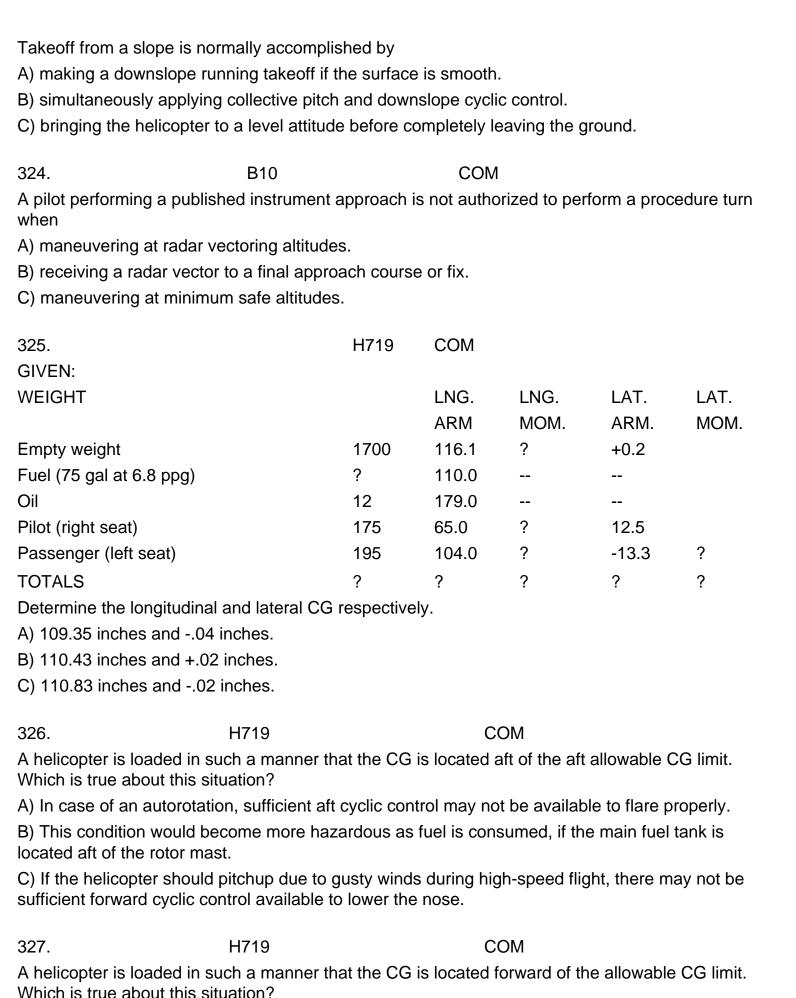
A) It allows the engine	to be started without	driving the main rotor system.
B) It provides speed re	eduction between the	engine, main rotor system, and tail rotor system.
C) It provides disenga	gement of the engine	from the rotor system for autorotation purposes.
295.	B08	COM
When approaching to helicopter pilot should	land at an airport, with	nout an operating control tower, in Class G airspace, a
A) enter and fly a traffi	c pattern at 800 feet A	AGL.
B) make all turns to the	e left, unless otherwise	e indicated.
C) avoid the flow of fix	ed-wing aircraft.	
296.	H732	СОМ
During a normal appro	each to a hover, the co	ellective pitch control is used primarily to
A) maintain RPM.		
B) control the rate of c	losure.	
C) control the angle of	descent.	
297.	H705	COM
During climbing flight, action should be taken		is low and the RPM is high. What initial corrective
A) Increase the throttle	€.	
B) Decrease the thrott	le.	
C) Raise the collective	pitch.	
298.	H745	СОМ
		what action is most appropriate?
•		n is the proper procedure.
,		vel attitude at touchdown.
,	•	lesirable to help decrease ground run.
299.	H746	СОМ
Using right pedal to as actions?	sist a right turn during	an autorotative descent will probably result in what
A) A decrease in rotor airspeed.	RPM, pitch up of the I	nose, decrease in sink rate, and increase in indicated
B) An increase in rotor airspeed.	RPM, pitch up of the	nose, decrease in sink rate, and increase in indicated
C) An increase in rotor indicated airspeed.	RPM, pitch down of t	he nose, increase in sink rate, and decrease in

300.	H746	COM
Using left pedal RPM to	to assist a left turn during an a	autorotative descent will probably cause the rotor
A) increase and	the airspeed to decrease.	
B) decrease and	the aircraft nose to pitch dow	m.
C) increase and	the aircraft nose to pitch dow	n.
301.	H749	COM
Ground resonan	ce is less likely to occur with I	nelicopters that are not equipped with
A) rigid rotor sys	etems.	
B) fully articulate	ed rotor systems.	
C) semi-rigid rot	or systems.	
302.	H745	COM
Which procedure	e will result in recovery from s	ettling with power?
A) Increase colle	ective pitch and power.	
B) Maintain cons	stant collective pitch and incre	ase throttle.
C) Increase forw	ard speed and reduce collect	ive pitch.
303.	H745	COM
If complete power	er failure should occur while c	ruising at altitude, the pilot should
A) partially lowe	r the collective pitch, close the	e throttle, then completely lower the collective pitch.
B) lower the coll correct for yaw.	ective pitch as necessary to n	naintain proper rotor RPM, and apply right pedal to
•	ottle, lower the collective pitch sh a normal power-off glide.	to the full-down position, apply left pedal to correct for
304.	H745	COM
•	aws 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 the	throttle.	
B) Decrease the	throttle.	
C) Increase colle	ective pitch.	
305.	H745	COM
What are the ma	ajor indications of an incipient	retreating blade stall situation, in order of occurrence?
A) Low-frequence	cy vibration, pitchup of the nos	se, and a roll in the direction of the retreating blade.

B) Slow pitchup of	the nose, high-frequency v	ribration, and a tendency for the helicopter to roll.
C) Slow pitchup of vibration.	f the nose, tendency for the	helicopter to roll, followed by a medium-frequency
306.	H745	COM
How should a pilo	t react at the onset of retrea	iting blade stall?
A) Reduce collecti	ive pitch, rotor RPM, and fo	rward airspeed.
B) Reduce collecti	ive pitch, increase rotor RPI	M, and reduce forward airspeed.
C) Increase collec	tive pitch, reduce rotor RPN	A, and reduce forward airspeed.
307.	H745	COM
To recover from a	settling with power condition	n, the pilot should
A) not apply antito	rque pedal during the recov	very.
B) increase rotor F	RPM, reduce forward airspe	ed, and minimize maneuvering.
C) apply forward of	cyclic and simultaneously re	duce collective, if altitude permits.
308.	H745	COM
When operating a conditions of	t high forward airspeed, retr	reating blade stall is more likely to occur under
A) low gross weigl	ht, high density altitude, and	d smooth air.
B) high gross weig	ght, low density altitude, and	d smooth air.
C) high gross weig	ght, high density altitude, an	nd turbulent air.
309.	H739	COM
During the entry in	nto a quick stop, how should	the collective pitch control be used? It should be
A) lowered as nec	essary to prevent ballooning	g.
B) raised as neces	ssary to prevent a rotor ove	rspeed.
C) raised as neces	ssary to prevent a loss of al	titude.
310.	H743	COM
When conducting is to determine the		tion, the primary purpose of the high reconnaissance
A) power requirem	nents for the approach.	
B) suitability of the	e area for landing.	
C) amount of slop	e in the landing area.	
311.	H741	COM
Normal RPM shou	ıld be maintained during a r	unning landing primarily to ensure
A) adequate direc	tional control until the helico	opter stops.

b) that sufficient int is	available should an eme	ergency develop.
C) longitudinal and late altitude conditions exist		f the helicopter is heavily loaded or high density
312.	H744	COM
A) shallow approach, i	maintaining a constant l	of high wind and turbulence, the pilot should make a line of descent with cyclic applications.
,	•	n-normal rate of descent with cyclic applications. g the desired angle of descent with collective
313.	H745	COM
During the flare portion A) remain constant.	n of a power-off landing	, the rotor RPM tends to
B) increase initially.		
C) decrease initially.		
314.	H742	COM
When planning slope of because	operations, only slopes	of 5° gradient or less should be considered, primarily
A) ground effect is lost	t on slopes of steeper g	radient.
B) downwash turbulen	ice is more severe on sl	lopes of steeper gradient.
C) most helicopters ar	e not designed for oper	ations on slopes of steeper gradient.
315.	H742	COM
When making a slope	landing, the cyclic pitch	control should be used to
A) lower the downslop	e skid to the ground.	
B) hold the upslope sk	id against the slope.	
C) place the rotor disc	parallel to the slope.	
316.	H742	COM
What is the procedure	for a slope landing?	
A) Use maximum RPN	A and maximum manifol	ld pressure.
B) If the slope is 10° o	r less, the landing shou	ld be made perpendicular to the slope.
C) When parallel to the downslope skid.	e slope, slowly lower the	e upslope skid to the ground prior to lowering the
317.	H726	СОМ

During calm wind conditior most power?	ns, in most helicopters, which of th	nese flight operations would require the
A) A left-pedal turn.		
B) A right-pedal turn.		
C) Hovering in ground effe	ct.	
318.	H726	COM
•	alm wind conditions and decide to reciprocating engines, the engine	• .
319.	H739	COM
B) aft cyclic, while raising t	e a quick stop is to apply sing the collective and applying right be collective and applying left ant gether the collective and applying right	itorque pedal.
320.	H727	COM
A) cyclic pitch to control sta B) collective pitch to contro	safe and efficient manner, helicoparting, taxi speed, and stopping. ol starting, taxi speed, and stopping rect for drift during crosswind con	g.
321.	H727	COM
During surface taxiing, the A) heading. B) ground track. C) forward movement.	cyclic pitch stick is used to contro	ol .
322.	H727	COM
To taxi on the surface in a A) start and stop aircraft m B) maintain heading during C) correct for drift during c	g crosswind conditions.	ould use the cyclic pitch to
323.	H742	COM



A) This condition would beco the rotor mast.	me less hazardous as fuel i	s consumed if the fuel tank is located aft of		
B) In case of engine failure and the resulting autorotation, sufficient cyclic control may not be available to flare properly to land.				
C) Should the aircraft pitchup forward cyclic control availab	· ·	gusty winds, there may not be enough		
328.	B12	COM		
Which is true with respect to	operating limitations of a 'pr	imary' category airplane?		
A) A 'primary' category airpla	ne is limited to a specified o	perating radius from its home base.		
B) A pilot of a 'primary' category passengers for compensation	•	mmercial pilot certificate when carrying		
C) No person may operate a compensation or hire.	'primary' category airplane	carrying passengers or property for		
329.	A02	COM		
14 CFR part 1 defines V _Y as				
A) speed for best rate of desc	cent.			
B) speed for best angle of cli	mb.			
C) speed for best rate of clim	b.			
•				