05/23/2007

Bank: (Instrument Rating)

Airman Knowledge Test Question Bank

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pdf

1. M08 IRA

Test data indicate that ice, snow, or frost having a thickness and roughness similar to medium or coarse sandpaper on the leading edge and upper surface of an airfoil can

- A) reduce lift by as much as 50 percent and increase drag by as much as 50 percent.
- B) increase drag and reduce lift by as much as 25 percent.
- C) reduce lift by as much as 30 percent and increase drag by 40 percent.

2. H807 IRA

What is the relationship between centrifugal force and the horizontal lift component in a coordinated turn?

- A) Horizontal lift exceeds centrifugal force.
- B) Horizontal lift and centrifugal force are equal.
- C) Centrifugal force exceeds horizontal lift.

3. H1227 IRA

The rate of turn at any airspeed is dependent upon

- A) the horizontal lift component.
- B) the vertical lift component.
- C) centrifugal force.

4. H807 IRA

During a constant bank level turn, what effect would an increase in airspeed have on the rate and radius of turn?

- A) Rate of turn would increase, and radius of turn would increase.
- B) Rate of turn would decrease, and radius of turn would decrease.
- C) Rate of turn would decrease, and radius of turn would increase.

5. H807 IRA

Rate of turn can be increased and radius of turn decreased by

A) decreasin	ng airspeed and shallowing	the bank.
3) decreasin	ng airspeed and increasing	the bank.
C) increasing	g airspeed and increasing	the bank.
ô.	H1227	IRA
-	reason the pitch attitude muturn, is because the	nust be increased, to maintain a constant altitude during a
A) thrust is a	acting in a different direction	n, causing a reduction in airspeed and loss of lift.
3) vertical co	omponent of lift has decrea	ased as the result of the bank.
C) use of pe	dals has increased the dra	g.
7.	H1227	IRA
-	reason the angle of attack turn, is because the	must be increased, to maintain a constant altitude during a
B) vertical co	•	n, causing a reduction in airspeed and loss of lift. ased as the result of the bank.
J) use of all	erons has increased the di	ay.
3.	H1404	IRA
Precision Ru	ınway Monitoring (PRM) is	:
A) an airborr	ne RADAR system for mon	nitoring approaches to two runways.
3) a RADAR	system for monitoring app	proaches to closely spaced parallel runways.
C) a high up runway.	date rate RADAR system f	for monitoring multiple aircraft ILS approaches to a single
9.	H810	IRA
What information	ation does a Mach meter p	present?
A) The ratio	of aircraft true airspeed to	the speed of sound.
3) The ratio	of aircraft indicated airspec	ed to the speed of sound.
C) The ratio	of aircraft equivalent airsp	eed, corrected for installation error, to the speed of sound.
10.	H808	IRA
	_	ssary to use an alternate source of static pressure vented ng variations in instrument indications should the pilot
•	eter will read lower than no show a descent.	ormal, airspeed lower than normal, and the VSI will
•	eter will read higher than n show a climb.	ormal, airspeed greater than normal, and the VSI will

•	will read lower than normal, wa climb and then a descer	airspeed greater than normal, and the VSI will nt.
11.	H1400	IRA
A) The pilot is real. B) The pilot mus	quired to accept the controlled the controlled the clearance if the the option to accept or reject	and Hold Short Operation (LAHSO) clearance?" er`s clearance in visual meteorological conditions. pavement is dry and the stopping distance is adequate t all LAHSO clearances regardless of the
12.	J03	IRA
Which type of rule the runway thres A) RAIL. B) HIRL. C) REIL.		air of synchronized flashing lights, one on each side of
13.	J05	IRA
	the fixed distance marker?) from the beginning of the touchdown zone marker to
14.	J05	IRA
A) direction to the B) designation as	to a taxiway from another ta e take-off runway. nd direction of exit taxiway fr nd direction of taxiway leadin	•
15.	J13	IRA
When should pilot A) When visibility B) When parallel		airport when calling the tower for takeoff?
16.	J27	IRA
What wind condi period of time?	tion prolongs the hazards of	wake turbulence on a landing runway for the longest

A) Direct headwind.B) Direct tailwind.C) Light quartering tail	wind.	
17.	J27	IRA
What effect would a lig	ht crosswind of a	approximately 7 knots have on vortex behavior?
A) The light crosswind	would rapidly dis	ssipate vortex strength.
B) The upwind vortex v	would tend to ren	nain over the runway.
C) The downwind vorte	ex would tend to	remain over the runway.
18.	H801	IRA
A sloping cloud formati stars can create an illu		horizon, and a dark scene spread with ground lights and
A) elevator illusions.		
B) autokinesis.		
C) false horizons.		
19.	J31	IRA
Why is hypoxia particu	larly dangerous	during flights with one pilot?
A) Night vision may be	so impaired that	the pilot cannot see other aircraft.
B) Symptoms of hypox	ia may be difficu	It to recognize before the pilot's reactions are affected.
C) The pilot may not be	e able to control	the aircraft even if using oxygen.
20.	H1432	IRA
(Refer to figure YYYY) approach with BARO-\	•	note stating a temperature limitation for executing this ?
A) The descent gradient temperatures.	nt exceeds the m	aximum standard of 400-foot per Nautical Mile at low
B) The decision altitude when temperatures are		ach segment height above obstacles or terrain is unsafe ted.
C) The missed approact temperatures.	ch climb gradient	t exceeds the airplane maximum standard of 40 to 1 at low
21.	J01	IRA
Which substitution is p	ermitted when ar	ILS component is inoperative?
A) A compass locator of	or precision rada	r may be substituted for the ILS outer or middle marker.

B) ADF or VOR bearings which cross either the outer or middle marker sites may be substituted for these markers.

C) DME, when located marker.	at the localizer ant	enna site, should be substituted for the outer or middle
22. ŀ	H1433	IRA
• • • • • • • • • • • • • • • • • • •	acle identification s	inway equipped with MALSR, that there may be a curfaces (OIS), and care should be taken in the visual
A) The runway has a vi	sual approach slop	pe indicator (VASI.)
B) The published visibil	lity for the ILS is no	lower than 3/4 SM.
C) The approach chart	has a visual desce	ent point (VDP) published.
23.	J18	IRA
How is ATC radar used control service?	I for instrument app	proaches when the facility is approved for approach
A) Precision approache of a navigation aid used		ance, and as a substitute for any inoperative component
B) ASR approaches, we	eather surveillance	e, and course guidance by approach control.
C) Course guidance to nonradar approaches.	the final approach	course, ASR and PAR approaches, and the monitoring of
24.	J18	IRA
During a 'no gyro' appro should make all turns	oach and prior to b	eing handed off to the final approach controller, the pilot
A) one half standard ra	te unless otherwise	e advised.
B) any rate not exceedi	ing a 30° bank.	
C) standard rate unless	s otherwise advised	d.
25.	B10	IRA
	• •	past the OM to a runway which has a VASI. What action slope malfunction occurs and the pilot has the VASI in
A) The pilot should info and make a localizer ap		function and then descend immediately to the localizer DH
B) The pilot may contin slope.	ue the approach a	nd use the VASI glide slope in place of the electronic glide
C) The pilot must requed discretion.	est an LOC approa	ch, and may descend below the VASI at the pilot's
26.	H816	IRA
When airspeed is decre	eased in a turn, wh	at must be done to maintain level flight?

A) Decrease th	ne angle of bank and/or increase	the angle of attack.
B) Increase the	e angle of bank and/or decrease	the angle of attack.
C) Increase the	e angle of attack.	
27.	H810	IRA
• • • • • • • • • • • • • • • • • • • •	c heading indicator is inoperative straight-and-level flight?	. What is the primary bank instrument in
A) Magnetic co	ompass.	
B) Attitude ind	icator.	
C) Miniature a	ircraft of turn coordinator.	
28.	H815	IRA
What instrume a constant rate		nk instruments during a straight, stabilized climb at
A) Attitude ind	icator and turn coordinator.	
B) Heading ind	dicator and attitude indicator.	
C) Heading inc	dicator and turn coordinator.	
29.	H815	IRA
-	creased to enter a 500 feet per mee primary for pitch, bank, and pover	inute rate of climb in straight flight, which wer respectively?
A) Attitude ind	icator, heading indicator, and mar	nifold pressure gauge or tachometer.
B) VSI, attitude	e indicator, and airspeed indicato	r.
C) Airspeed in	dicator, attitude indicator, and ma	anifold pressure gauge or tachometer.
30.	H815	IRA
	an airspeed higher than the descond from the descond from the contract of descent, at approximate of descent, at approximate from the contract of the contract	ent speed, the addition of power should be made, cimately
A) 50 to 100 fe	eet above the desired altitude.	
B) 100 to 150	feet above the desired altitude.	
C) 150 to 200	feet above the desired altitude.	
31.	H815	IRA
	what percent of the indicated ver the level off from a climb to a spe	rtical speed should be used to determine the number ecific altitude?
A) 10 percent.		
B) 20 percent.		
C) 25 percent.		

32.	H813	IRA
What is the cor	rect sequence in which to	use the three skills used in instrument flying?
A) Aircraft conti	rol, cross-check, and insti	rument interpretation.
B) Instrument ir	nterpretation, cross-check	and aircraft control.
•	x, instrument interpretation	
,	,	
33.	H813	IRA
What are the th	ree fundamental skills inv	olved in attitude instrument flying?
A) Instrument ir	nterpretation, trim applica	ion, and aircraft control.
B) Cross-check	, instrument interpretation	n, and aircraft control.
C) Cross-check	x, emphasis, and aircraft o	ontrol.
34.	H826	IRA
instruments sho	ould be relied on to deterr	ide and the attitude indicator has exceeded its limits, which nine pitch attitude before starting recovery?
A) Turn indicate		
•	SI and altimeter.	o
c) vsi and airs	peed to detect approachi	ig vsi or vivio.
35.	H818	IRA
During recoveri	es from unusual attitudes	, level flight is attained the instant
A) the horizon b	oar on the attitude indicate	or is exactly overlapped with the miniature airplane.
B) a zero rate o	of climb is indicated on the	e VSI.
C) the altimeter	and airspeed needles st	op prior to reversing their direction of movement.
,	·	
36.	H818	IRA
	•	sequence for recovery from the unusual attitude indicated? r pressure, and level the wings.
B) Reduce pow	er, level the wings, bring	pitch attitude to level flight.
C) Level the wir	ngs, raise the nose of the	aircraft to level flight attitude, and obtain desired airspeed.
37.	H808	IRA
	83.) Which altimeter dep	
A) 2.	oo.) willon alamotor dop	0.0 12,000 1001.
B) 3.		
C) 4.		
∪ , ¬.		
38.	H812	IRA

What pretakeoff check should be made of the attitude indicator in preparation for an IFR flight? A) The horizon bar does not vibrate during warmup. B) The miniature airplane should erect and become stable within 5 minutes.		
o) The honzon bar shee	and creek and become stable within a min	idios.
39.	H810	IRA
When an aircraft is accedal A) climb. B) descent. C) right turn.	elerated, some attitude indicators will pre	ecess and incorrectly indicate a
40.	H812	IRA
	taxi is an indication that an attitude indic	
•	more than 5° while making taxi turns.	
B) The horizon bar vibra	G	
•	s not align itself with the miniature airpla	ne after warmup.
41.	H812	IRA
Which practical test sho	ould be made on the electric gyro instrun	nents prior to starting an engine?
A) Check that the electr	ical connections are secure on the back	of the instruments.
B) Check that the attitude	de of the miniature aircraft is wings level	before turning on electrical power.
C) Turn on the electrica	I power and listen for any unusual or irre	egular mechanical noise.
42.	H809	IRA
What should be the indication on the magnetic compass as you roll into a standard-rate turn to the left from an east heading in the Northern Hemisphere?		
A) The compass will init	tially indicate a turn to the right.	
B) The compass will rer heading of the aircraft.	main on east for a short time, then gradu	ally catch up to the magnetic
C) The compass will incompose will incompose will incompose will incompose with the compass will incompose with the compose will be composed with the composed with	licate the approximate correct magnetic	heading if the roll into the turn is
43.	H816	IRA
	cation on the magnetic compass as you g in the Northern Hemisphere?	roll into a standard rate turn to the
A) The compass will ind	licate a turn to the left, but at a faster rat	e than is actually occurring.
B) The compass will init	tially indicate a turn to the right.	
C) The compass will rer heading of the aircraft.	main on north for a short time, then grad	ually catch up to the magnetic

44.	H809	IRA
What should be the incright from a westerly he		netic compass as you roll into a standard rate turn to the ern Hemisphere?
A) The compass will in but lagging behind the	•	the opposite direction, then turn to a northerly indication ne aircraft.
B) The compass will re actual heading of the a		heading for a short time, then gradually catch up to the
C) The compass will in smooth.	dicate the approxim	ate correct magnetic heading if the roll into the turn is
45.	H812	IRA
What indications shoul	d you observe on th	e turn and slip indicator during taxi?
A) The ball moves free	ly opposite the turn	and the needle deflects in the direction of the turn.
B) The needle deflects	in the direction of the	ne turn, but the ball remains centered.
C) The ball deflects op	posite the turn, but	the needle remains centered.
46.	H810	IRA
If a half standard-rate t	turn is maintained, h	low long would it take to turn 360°?
A) 1 minute.		
B) 2 minutes.		
C) 4 minutes.		
47.	J17	IRA
airspace under IFR? Y	our aircraft is equip	VOR receiver malfunctions while operating in controlled ped with two VOR receivers. The No. 1 receiver has VOR/lo. 2 receiver has only VOR/Localizer capability.
A) Report the malfunct	ion immediately to A	ATC.
B) Continue the flight a	as cleared; no repor	t is required.
C) Continue the approa	ach and request a V	OR or NDB approach.
48.	J34	IRA
Preferred IFR routes be the fix by	eginning with a fix, i	ndicate that departing aircraft will normally be routed to
A) the established airw	ay(s) between the d	departure airport and the fix.
B) an instrument depar	rture procedure (DP), or radar vectors.
C) direct route only.		
49.	J40	IRA

•	30.) Which restriction to the IRN) departure?	use of the OED VORTAC would be applicable to the
A) R 333 beyon	nd 30 NM below 6,500 feet.	
B) R 210 beyon	nd 35 NM below 8,500 feet.	
C) R 251 within	15 NM below 6,100 feet.	
50.	J26	IRA
•	lying at FL 250, you hear AT0 ressure altitude are you flyino	C give an altimeter setting of 28.92 inches Hg in your g?
A) 24,000 feet.		
B) 25,000 feet.		
C) 26,000 feet.		
51.	H842	IRA
MEA is an altitu	ide which assures	
A) obstacle clea DME mileage.	arance, accurate navigationa	I signals from more than one VORTAC, and accurate
B) a 1,000-foot	obstacle clearance within 2 r	miles of an airway and assures accurate DME mileage.
C) acceptable r	navigational signal coverage	and meets obstruction clearance requirements.
52.	H842	IRA
Acceptable nav only	igational signal coverage at t	he MOCA is assured for a distance from the VOR of
A) 12 NM.		
B) 22 NM.		
C) 25 NM.		
53.	J17	IRA
Unless otherwis	se specified on the chart, the	minimum en route altitude along a jet route is
A) 18,000 feet N	MSL.	
B) 24,000 feet N	MSL.	
C) 10,000 feet I	MSL.	
54.	J14	IRA
To comply with descent should		changes of more than 1,000 feet, what rate of climb or
	s practicable to 500 feet above assigned altitude is reached	ve/below the assigned altitude, and then at 500 feet per .

B) 1,000 feet per assigned altitude		00 feet per minute during descents until reaching the
• •	practicable to 1,000 feet ab er minute until reaching the	ove/below the assigned altitude, and then between 500 assigned altitude.
55.	J17	IRA
		neaded eastbound, ATC instructs you to hold west on ard turns, what entry procedure is recommended?
56.	J17	IRA
`	114.) A pilot receives this AT THE XYZ VORTAC. HOLD	C clearance: NORTH ON THE THREE SIX ZERO RADIAL, LEFT
What is the reco A) Teardrop only B) Parallel only. C) Direct only.	mmended procedure to ente	r the holding pattern?
57.	J17	IRA
CLEARED TO	mmended procedure to ente	SOUTH ON THE ONE EIGHT ZERO RADIAL'
58.	J19	IRA
What altitude ma	ay a pilot select upon receivi	ng a VFR on Top clearance?
A) Any altitude a	t least 1,000 feet above the	meteorological condition.
, , , , ,	ude appropriate for the direc	the MEA in VFR weather conditions. etion of flight at least 1,000 feet above the
59.	J35	IRA
` •	76 and 77.) Which en route DZEMAN VORTAC?	low altitude navigation chart would cover the proposed

A) L 2.		
B) L 7.		
C) L 9.		
00	11040	ID A
60.	H948	IRA
`	and Durango, Co. if the average for	uld be consumed on the flight between Grand uel consumption is 15 GPH.
A) 17 gallons	5.	
B) 20 gallons	5.	
C) 25 gallons	S.	
61.	H948	IRA
•	ires 21 and 21A, 22 and 22A, 23, 2 ., La Plata Co. Airport, you are una	24, 25, and 26.) After departing GJT and arriving at ble to land because of weather.
_	n you hold over DRO before depar Field Airport?	ting for return flight to the alternate, Grand Junction
Total useable	e fuel on board, 68 gallons.	
Wind and ve	locity at 16,000, 2308-16°.	
Average fuel	consumption 15 GPH.	
A) 1 hour 33	minutes.	
B) 1 hour 37	minutes.	
C) 1 hour 42	minutes.	
62.	H948	IRA
`	,	rimate elapsed time from BZN VOR to DBS your intended TAS is 185 knots? (VAR 17 °E.)
A) 33 minute	es.	
B) 37 minute	es.	
C) 39 minute	es.	
63.	H1414	IRA
An airport ma	ay not be qualified for alternate use	e if
-	t has AWOS-3 weather reporting.	
•	t is located next to a restricted or p	rohibited area.
C) the NAVA	IDS used for the final approach are	e unmonitored.
64.	H830	IRA
(Refer to figu	ure 105.) If the magnetic heading sl	hown for aircraft 7 is maintained, which ADF 20° magnetic bearing FROM the station?

A) 2.		
3) 4.		
C) 5.		
	Line	ID A
65.	H830	IRA
	e 101.) What is the magnetic b	earing TO the station?
4) 060°.		
B) 260°.		
C) 270°.		
66.	J01	IRA
Which DME in	dication should you receive wl	nen you are directly over a VORTAC site at
approximately	6,000 feet AGL?	
A) O.		
3) 1.		
C) 1.3.		
67.	H832	IRA
Refer to figure	es 46 and 48.) What is your po	sition relative to the 9 DME ARC and the 206° radial of
he instrument	departure procedure?	
A) On the 9 DI	ME arc and approaching R 200	3.
B) Outside the	9 DME arc and past R 206.	
C) Inside the 9	DME arc and approaching R	206.
68.	H1401	IRA
	orimary benefits of satellite bas	sed area navigation (RNAV)?
•	otimal routing and altitudes.	
	g and controller communication	n is minimized.
C) Standard To	erminal Arrival Routes and De	parture Procedures are not required
20	11004	ID A
69. Tull apple defle	H831	IRA
		e course deviation bar or needle
•	m left side of the scale to right	
•	m the center of the scale to eit m half scale left to half scale ri	
o) dellects iloi	III IIali Scale lelt to IIali Scale II	grit.
70.	J35	IRA
. •	•	6 between Whitehall and Livingston, the minimum
aititude that vo	ou should cross BZN is	

A) 10,400 feet.B) 9,300 feet.C) 8,500 feet.		
71. On what frequency A) 122.1T/112.8R. B) 123.6. C) 122.0.		IRA Route Flight Advisory Service below FL 180?
` •		IRA ford Municipal to Bryce Canyon via V235 and V293, what crossing Cedar City VOR?
73. (Refer to figure 91 flight on V257? A) 7,500 feet. B) 8,600 feet. C) 11,100 feet.	J35 .) What is the minimum	IRA crossing altitude at DBS VORTAC for a northbound IFR
74. (Refer to figure 47 crossing Gymme i A) 6,400 feet. B) 6,500 feet. C) 7,000 feet.	•	IRA om BTG VORTAC to LTJ VORTAC, the minimum altitude
75. (Refer to figure 47 at TROTS intersect A) 7,100 feet. B) 10,000 feet. C) 11,500 feet.	-	IRA om BTG VORTAC to YKM VORTAC, the minimum altitude
76.	J16	IRA

What does the sy airport indicate?	mbol T within a black triangle	n the minimums section of the IAP for a particular
A) Takeoff minim more than two en		ng two engines or less and 1/2 mile for those with
B) Instrument tak	eoffs are not authorized.	
C) Takeoff minim	ums are not standard and/or d	eparture procedures are published.
77.	J18	IRA
(Refer to figure 1 approach to Roar	•	fy the missed approach point for the S LDA GS 6
A) Arrival at 1,540	I feet on the glide slope.	
B) Arrival at 1.0 D	OME on the LDA course.	
C) Time expired f	or distance from OM to MAP.	
78.	J18	IRA
`	31.) Other than VOR/DME RN act the VOR/DME RNAV RWY	AV, what additional navigation equipment is 4R approach at BOS?
A) None.		
B) VNAV.		
C) Transponder v	vith altitude encoding and Mar	cer Beacon.
79.	J18	IRA
`	33.) What is the minimum altitueal Beach VORTAC?	ide descent procedure if cleared for the S ILS 9
,	,	descend to and maintain 2,500 until crossing SWAN ag AGNES, and to 991 (DH) after passing AGNES.
•	maintain 3,000 to JASER INT, and maintain the GS to 991 (D	descend to 2,800 when established on the LOC in the Loc
C) Descend and	·	descend to 2,500 while established on the LOC
80.	J18	IRA
•	•	reports 'tall vessels' in the approach area. What are ach minimums for Category A aircraft.
A) 840/40		
B) 890/24.		
C) 890/40.		
81.	J18	IRA
	determine if DME is available	

A) IAP indicate D	ME\TACAN channel in LOC	frequency box.
B) LOC\DME are	indicated on en route low a	ltitude frequency box.
C) LOC\DME free	quencies available in the Air	man's Information Manual.
82.	J18	IRA
(Refer to figure 1 Approach Chart?		the 10,300 MSA on the Price/Carbon County Airport
A) It provides saf	e clearance above the higher	est obstacle in the defined sector out to 25 NM.
B) It provides an	altitude above which naviga	tional course guidance is assured.
•	um vector altitude for radar tic bearing to PUC VOR.	vectors in the sector southeast of PUC between 020°
83.	J18	IRA
(Refer to figure 1	29.) What is the position of	_ABER relative to the reference facility?
A) 316°, 24.3 NM	1.	
B) 177°, 10 NM.		
C) 198°, 8 NM.		
84.	J18	IRA
(Refer to figure 1 Roanoke Region	-	e turn restrictions on the LDA RWY 6 approach at
A) Remain within	10 NM of CLAMM INT and	on the north side of the approach course.
B) Remain within	10 NM of the airport on the	north side of the approach course.
C) Remain within	10 NM of the outer marker	on the north side of the approach course.
85.	J18	IRA
· -	30.) What are the restriction canoke Regional?	s regarding circle to land procedures for LDA RWY/G
A) Circling to run	way 24 not authorized.	
B) Circling not au	thorized NW of RWY 6 24.	
C) Visibility increa	ased 1/2 mile for circling ap	proach.
86.	J18	IRA
, –	24.) The point on the teardron, is initiated is determined	op procedure where the turn in bound (LOC RWY 35) by
A) DME and timir	ng to remain within the 10-N	M limit.
B) Timing for a 2	minute maximum.	
C) Estimating gro	ound speed and radius of tu	n.

87.	J18	IRA
(Refer to figure 1 from the LOM?	22.) The missed approach	point of the ATL S-LOC 8L procedure is located how far
A) 4.8 NM.		
B) 5.1 NM.		
C) 5.2 NM.		
88.	J18	IRA
(Refer to figure 1 procedure?	23.) What minimum naviga	tion equipment is required to complete the VOR/DME-A
A) One VOR rece	eiver.	
B) One VOR rece	eiver and DME.	
C) Two VOR rec	eivers and DME.	
89.	J18	IRA
	24.) What options are avail th to Duncan/Halliburton Fig	able concerning the teardrop course reversal for LOC eld?
A) If a course rev	versal is required, only the t	eardrop can be executed.
B) The point whe	ere the turn is begun and the	e type and rate of turn are optional.
C) A normal prod	edure turn may be made if	the 10 DME limit is not exceeded.
90.	J18	IRA
using a category	C aircraft during a circling	ns apply for a 14 CFR part 91 operator at Dothan, AL, LOC 31 approach at 120 knots? (DME available).
A) MDA 860 feet	MSL and visibility 2 SM.	
•	MSL and visibility 1 and 1/2	2 SM.
C) MDA 720 feet	MSL and visibility 3/4 SM.	
91.	J18	IRA
` •	26.) What is the ability to ic land minimums for a categ	lentify the RRS 2.5 stepdown fix worth in terms of jory C aircraft?
A) Decreases MI	DA by 20 feet.	
B) Decreases vis	sibility by 1/2 SM.	
C) Without the st	epdown fix, a circling appro	each is not available.
92.	J18	IRA
(Refer to figure 1 flight would be ex	-	Y 28 approach (Lancaster/Fairfield) over ZZV VOR, the
Category A aircra	aft	

A) proceed straig	ght in from CRISY, descend	ling to MDA after Caser.
B) proceed to CF	RISY, then execute the tear	drop procedure as depicted on the approach chart.
C) proceed direc	et to CASER, then straight in	n to S-28 minimums of 1620-1.
93.	J18	IRA
` •	123.) The symbol on the pla sector altitude within 25 NM	n view of the VOR/DME-A procedure at 7D3 represents of
A) DEANI interse	ection.	
B) White Cloud \		
C) Baldwin Muni	cipal Airport.	
94.	J01	IRA
(Refer to figure 1 standard ILS app A) The LOC is w	oroach facility?	ility, such as the one at Roanoke Regional, differ from a
B) The LOC is o	ffset from the runway.	
C) The GS is un	usable beyond the MM.	
95.	J01	IRA
How wide is an S	SDF course?	
A) Either 3° or 6°	•	
B) Either 6° or 12	2°.	
C) Varies from 5	° to 10°.	
96.	J01	IRA
When using GPS have	S for navigation and instrum	nent approaches, any required alternate airport must
A) authorization	to fly approaches under IFF	R using GPS avionics systems.
B) a GPS approa	ach that is anticipated to be	operational and available at the ETA.
C) an approved	operational instrument appr	oach procedure other than GPS.
97.	J01	IRA
What internation landing system?		used to identify a specific interim standard microwave
A) A two letter M	lorse Code identifier preced	led by the Morse Code for the letters 'IM'.
B) A three letter	Morse Code identifier prece	eded by the Morse Code for the letter 'M'.
C) A three letter	Morse Code identifier prec	eded by the Morse Code for the letters 'ML'.

Last assigned altitude 3,000 feet

98.	J01	IRA
If Receiver Autor approach, the pil		g (RAIM) is not available when setting up a GPS
A) continue the a	approach, expecting to reca	apture the satellites before reaching the FAF.
B) select another	type of navigation and ap	proach system.
C) continue to the	e MAP and hold until the s	atellites are recaptured.
99.	J01	IRA
By which means operations?	may a pilot determine if a	Loran C equipped aircraft is approved for IFR
A) Not necessary	; Loran C is not approved	for IFR.
B) Check aircraft	logbook.	
C) Check the Air	plane Flight Manual Suppl	ement.
100.	J01	IRA
During IFR opera	ation using an approved Gl	PS system for navigation,
A) the aircraft muthe route.	ust have an approved and	operational alternate navigation system appropriate for
B) active monitor	ring of an alternate navigat	ion system is always required.
C) no other navig	gation system is required.	
101.	J01	IRA
During IFR en ro based navigation		s using an approved GPS system for navigation, ground
A) must be opera	ational only if RAIM predict	s an outage.
B) must be opera	ational along the entire rou	te.
C) are only requi	red during the approach po	ortion of the flight.
102.	J01	IRA
Hand - held GPS operations as	systems, and GPS syster	ms certified for VFR operation, may be used during IFR
A) the primary so	ource of navigation.	
B) the principal re	eference to determine enro	oute waypoints.
C) an aid to situa	tional awareness.	
103.	J34	IRA
` •	8.) On which frequencies of ground at College Station	could you communicate with the Montgomery County?
A) 122.65. 122.2	. 122.1. 113.3.	

B) 122.65, 122.2.			
C) 118.5, 122.65, 122.2.			
404	114.400	ID 4	
104.	H1400	IRA	
		Airman Publication (NTAP)?	
A) Current NOTAM (D) a	nd FDC NOTAMS.		
B) All Current NOTAMs.	LEDONOTANA		
C) Current NOTAM (L) a	nd FDC NOTAMS.		
105.	A20	IRA	
•		aft, under IFR or in weather conditions less than as, within the preceding 6 calendar months,	n the
A) three instrument appro	paches and logged 3 ho	ours.	
B) six instrument flights u	ınder actual IFR conditi	ons.	
C) six instrument approa navigational systems, or	.	es, intercepting and tracking courses using proficiency check.	
106.	A20	IRA	
		of this year. What is the latest date the pilot ca ving to take an instrument proficiency check?	ın
A) December 31, this year	ar.		
B) June 30, next year.			
C) July 31, this year.			
107.	A20	IRA	
After your recent IFR expinstrument competency of	•	uch time do you have before you must pass an ommand under IFR?	
A) 6 months.			
B) 90 days.			
C) 12 months.			
108.	A20	IRA	
	oilot logbook as simulate	14 CFR part 61, section 61.57(c), a pilot enters ed instrument conditions. What other qualifying	the
A) Location and type of e	each instrument approac	ch completed and name of safety pilot.	
B) Number and type of ir	strument approaches c	ompleted and route of flight.	

C) Name and pilot certificate number of safety pilot and type of approaches completed.

109.	A20	IRA
What portion of dual flight time?	instruction time may a certifi	cated instrument flight instructor log as instrument
A) All time during whe conditions.	nich the instructor acts as ins	trument instructor, regardless of weather
B) All time during whe conditions.	nich the instructor acts as ins	trument instructor in actual instrument weather
C) Only the time dur	ing which the instructor flies	the aircraft by reference to instruments.
110.	B10	IRA
What are the minimum when the airport has		nust be forecast to list an airport as an alternate
A) The ceiling and v	isibility at ETA, 2,000 feet an	d 3 miles, respectively.
B) The ceiling and v respectively.	isibility from 2 hours before u	ntil 2 hours after ETA, 2,000 feet and 3 miles,
C) The ceiling and v basic VFR.	isibility at ETA must allow de	scent from MEA, approach, and landing, under
111.	B10	IRA
	ch with standard alternate mir	east for your ETA at an alternate airport, that has nimums, for the airport to be listed as an alternate
A) 800 foot ceiling a	nd 1 statute mile visibility.	
B) 800 foot ceiling a	nd 2 statute miles visibility.	
	and visibility to allow descer ng under basic VFR.	nt from minimum en route altitude (MEA),
112.	B10	IRA
at an alternate airpo	• •	weather conditions must be forecast for your ETA ach procedure, with standard alternate minimums,
A) 600 foot ceiling a	nd 2 SM visibility at your ETA	٨.
B) 600 foot ceiling a	nd 2 SM visibility from 2 hour	s before to 2 hours after your ETA.
C) 800 foot ceiling a	nd 2 SM visibility at your ETA	١.
113.	B10	IRA
	•	conditions must exist at the destination airport to plan when a standard IAP is available?
A) From 2 hours bef	ore to 2 hours after ETA, fore	ecast ceiling 2,000, and visibility 2 and 1/2 miles.

•		cast ceiling 3,000, and visibility 3 miles. st ceiling 2,000, and visibility 3 miles.
114.	B10	IRA
For aircraft other than he an alternate on an IFR fli	-	veather minimums are required to list an airport as VOR approach only?
A) Ceiling and visibility at	ETA, 800 feet and 2 mil	es, respectively.
B) Ceiling and visibility from respectively.	om 2 hours before until 2	hours after ETA, 800 feet and 2 miles,
C) Ceiling and visibility at	ETA, 600 feet and 2 mil	es, respectively.
115.	B10	IRA
What point at the destina plan?	tion should be used to co	ompute estimated time en route on an IFR flight
A) The final approach fix	on the expected instrum	ent approach.
B) The initial approach fix	on the expected instrun	nent approach.
C) The point of first intend	ded landing.	
116.	B10	IRA
	foot ceiling and 3 miles v	onditions, if the first airport of intended landing is risibility at flight-planned ETA? Fuel to fly to the
A) and fly thereafter for 4	5 minutes at normal crui	sing speed.
B) fly to the alternate, and	d fly thereafter for 45 mir	nutes at normal cruising speed.
C) fly to the alternate, and	d fly thereafter for 30 mir	nutes at normal cruising speed.
117.	B10	IRA
landing has no instrumen	it approach prescribed in	u determine that the first airport of intended 14 CFR part 97. The weather forecast for one d time of arrival is 3000' scattered with 5 miles
To meet the fuel requiren landing,	nents for this flight, you r	nust be able to fly to the first airport of intended
A) and then fly for 45 min	utes at normal cruising s	peed.
B) then to the alternate a	irport, and then for 45 mi	nutes at normal cruising speed.
C) then to the alternate a	irport, and then for 30 m	inutes at normal cruising speed.
118.	B08	IRA
What action should you to	ake if your DME fails at F	⁻ L 240?
A) Advise ATC of the faile	ure and land at the neare	est available airport where repairs can be made.

B) Notify ATC that it will be	necessary for you	to go to a lower altitude, since your DME has failed.
C) Notify ATC of the failure be made.	and continue to th	e next airport of intended landing where repairs can
119.	B11	IRA
An aircraft operated under	14 CFR part 91 IFI	R is required to have which of the following?
A) Radar altimeter.		
B) Dual VOR system.		
C) Gyroscopic direction ind	icator.	
120.	B08	IRA
What are the minimum qua during simulated instrumen	•	son who occupies the other control seat as safety pilot
A) Private pilot certificate w	ith appropriate cat	egory and class ratings for the aircraft.
B) Private pilot with approp	riate category, clas	ss, and instrument ratings.
C) Private pilot with instrum	ent rating.	
121.	B11	IRA
•	•	12,500 feet MSL, but not more than 14,000 feet MSL, during that time is the minimum flightcrew required to
A) 2 hours 20 minutes.		
B) 1 hour 20 minutes.		
C) 1 hour 50 minutes.		
122.	B11	IRA
,	, ,	uirements for an IFR flight northeast bound from Bryce itude in an unpressurized aircraft?
A) The required minimum of flight of more than 30 minutes.	•	ded and use supplemental oxygen for that part of the
•	•	ded and use supplemental oxygen for that part of the ngers must be provided supplemental oxygen.
•	•	ded and use supplemental oxygen, and all occupants e entire flight above 15,000 feet.
123.	B11	IRA
(Refer to figure 91.) What a DBS VORTAC in an unpres		uirements for an IFR flight eastbound on V520 from the MEA?
A) The required minimum c flight of more than 30 minut	-	ded and use supplemental oxygen for that part of the

•	•	I and use supplemental oxygen for that part of the ers must be provided supplemental oxygen.
_		and use supplemental oxygen.
124.	B10	IRA
When must an operation operate under IFR?	nal check on the aircraft \	OR equipment be accomplished when used to
A) Within the preceding	10 days or 10 hours of fli	ght time.
B) Within the preceding	30 days or 30 hours of fli	ght time.
C) Within the preceding	30 days.	
125.	B10	IRA
<u> </u>		e maximum allowable tolerance between the two ent of each other except the antenna)?
A) 4° between the two in	ndicated bearings of a VC	DR.
B) Plus or minus 4° whe	n set to identical radials	of a VOR.
C) 6° between the two ir	ndicated radials of a VOR	.
126.	157	IRA
'WND' in the categorical period is forecast to be	outlook in the Aviation A	rea Forecast means that the wind during that
A) At least 6 knots or str	onger.	
B) At least 15 knots or s	tronger.	
C) At least 20 knots or s	tronger.	
127.	164	IRA
What does a Convective	Outlook (AC) describe f	or a following 24 hour period?
A) General thunderstorm	າ activity.	
B) A severe weather wa	tch bulletin.	
C) When forecast condit	ions are expected to con	tinue beyond the valid period.
128.	163	IRA
Winds and Temperature	at one of the forecast alt s Aloft Forecast (FD)? W	itudes omitted at a specific location or station in the /hen the wind
A) is less than 5 knots.		
B) is less than 10 knots.	4 - 00 f f.ll	
C) at the altitude is within	n 1,500 feet of the station	1 elevation.
129.	J25	IRA

AIRMET's are issued on a schedu	ıled basis every	
A) 15 minutes after the hour only.		
B) 15 minutes until the AIRMET is	s canceled.	
C) six hours.		
130.	l65	IRA
What information is provided by a	Convective Outlook (AC)?	
A) It describes areas of probable shours.	severe icing and severe or	extreme turbulence during the next 24
B) It provides prospects of both go hours.	eneral and severe thunders	storm activity during the following 24
C) It indicates areas of probable of atmosphere (above 500 MB).	convective turbulence and t	the extent of instability in the upper
131.	l65	IRA
	2 CONVECTIVE OUTLO	OK, what type of thunderstorms, if any fornia?
A) Moderate risk area, surrounded B) None.	d by a slight risk area, of po	ossible severe turbulence.
C) General.		
132.	l64	IRA
		thin the area indicated by arrow B?
A) Light to moderate turbulence a	·	•
B) Moderate turbulence from belo	·	
C) Moderate to severe CAT is fore		00 100t WOL.
133.	l64	IRA
(Refer to figure 18, SFC PROG) A		from northern Florida to southern
A) intermittent rain or rain shower feet.	s, moderate turbulence, an	nd freezing temperatures above 8,000
B) showery precipitation, thunders	storms/rain showers coveri	ng half or more of the area.
C) showery precipitation covering freezing temperatures above 12,0		turbulence below 18,000 feet, and
134.	164	IRA
(Refer to figure 5.) What is the me Significant Weather Prog Chart?	eaning of the symbol depict	ted as used on the U.S. Low-Level

A) Showery precipitation (e.g. rain or more of the area.	showers) embedded in ar	n area of continuous rain covering half
B) Continuous precipitation (e.g. ra	ain) covering half or more	of the area.
C) Showery precipitation (e.g. thu		
135.	164	IRA
The Low-Level Significant Weathe	er Prognostic Chart depicts	s weather conditions
A) that are forecast to exist at a va	alid time shown on the cha	rt.
B) as they existed at the time the	chart was prepared.	
C) that existed at the time shown	on the chart which is abou	t 3 hours before the chart is received.
136.	160	IRA
What important information is proving the charts?	vided by the Radar Summa	ary Chart that is not shown on other
A) Lines and cells of hazardous th	understorms.	
B) Types of precipitation.		
C) Areas of cloud cover and icing	levels within the clouds.	
137.	158	IRA
The Surface Analysis Chart depict	ts	
A) actual pressure systems, fronta chart.	al locations, cloud tops, and	d precipitation at the time shown on the
B) frontal locations and expected a vision at the time of chart transmis	-	ers, cloud coverage, and obstructions to
C) actual frontal positions, pressure obstructions to vision at the valid t		lew point, wind, weather, and
138.	127	IRA
Which are characteristics of an un	stable cold air mass movir	ng over a warm surface?
A) Cumuliform clouds, turbulence,	and poor visibility.	
B) Cumuliform clouds, turbulence,	and good visibility.	
C) Stratiform clouds, smooth air, a	and poor visibility.	
139.	127	IRA
An air mass is a body of air that		
A) has similar cloud formations as	sociated with it.	
B) creates a wind shift as it moves	s across the Earth's surfac	e.
C) covers an extensive area and h	nas fairly uniform propertie	s of temperature and moisture.

140.	125	IRA
What determines the structure of ascend?	or type of clouds which form	n as a result of air being forced to
A) The method by which the air	is lifted.	
B) The stability of the air before	lifting occurs.	
C) The amount of condensation	nuclei present after lifting	occurs.
141.	127	IRA
Which is a characteristic of stab	le air?	
A) Fair weather cumulus clouds		
B) Stratiform clouds.		
C) Unlimited visibility.		
142.	127	IRA
The general characteristics of u	nstable air are	
A) good visibility, showery preci	pitation, and cumuliform typ	pe clouds.
B) good visibility, steady precipi	tation, and stratiform type o	clouds.
C) poor visibility, intermittent pre	ecipitation, and cumuliform	type clouds.
143.	125	IRA
What type of clouds will be form	ned if very stable moist air is	s forced up slope?
A) First stratified clouds and the	n vertical clouds.	
B) Vertical clouds with increasing	ig height.	
C) Stratified clouds with little ve	rtical development.	
144.	l31	IRA
In what localities is advection fo	g most likely to occur?	
A) Coastal areas.		
B) Mountain slopes.		
C) Level inland areas.		
145.	l31	IRA
Fog is usually prevalent in indus	strial areas because of	
A) atmospheric stabilization aro	und cities.	
B) an abundance of condensation	on nuclei from combustion	products.
C) increased temperatures due	to industrial heating.	
146.	132	IRA

A) Increased visibility. B) Convective turbulence due to surface heating. C) Fog. 147.	Which weather condition can be colder surface?	expected when moist air flo	ws from a relatively warm surface to a
B) Convective turbulence due to surface heating. C) Fog. 147. 127 IRA Frontal waves normally form on A) slow moving cold fronts or stationary fronts. B) slow moving warm fronts and strong occluded fronts. C) rapidly moving cold fronts or warm fronts. 148. 124 IRA To which meteorological condition does the term 'dew point' refer? A) The temperature to which air must be cooled to become saturated. B) The temperature at which condensation and evaporation are equal. C) The temperature at which dew will always form. 149. 157 IRA If squalls are reported at your destination, what wind conditions should you anticipate? A) Sudden increases in wind speed of at least 16 knots, rising to 22 knots or more, lasting fo least 1 minute. B) Peak gusts of at least 35 knots for a sustained period of 1 minute or longer. C) Rapid variation in wind direction of at least 20° and changes in speed of at least 10 knots between peaks and lulls. 150. 128 IRA Where does wind shear occur? A) Exclusively in thunderstorms. B) Wherever there is an abrupt decrease in pressure and/or temperature. C) With either a wind shift or a wind speed gradient at any level in the atmosphere. 151. K04 IRA While flying a 3° glide slope, a headwind shears to a tailwind. Which conditions should the pi expect on the glide slope? A) Airspeed and pitch attitude decrease and there is a tendency to go below glide slope. B) Airspeed and pitch attitude increase and there is a tendency to go above glide slope.			
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C) rapidly moving cold fronts or warm fronts. 148.	A) slow moving cold fronts or sta	ationary fronts.	
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If squalls are reported at your destination, what wind conditions should you anticipate? A) Sudden increases in wind speed of at least 16 knots, rising to 22 knots or more, lasting fo least 1 minute. B) Peak gusts of at least 35 knots for a sustained period of 1 minute or longer. C) Rapid variation in wind direction of at least 20° and changes in speed of at least 10 knots between peaks and lulls. 150. I28 IRA Where does wind shear occur? A) Exclusively in thunderstorms. B) Wherever there is an abrupt decrease in pressure and/or temperature. C) With either a wind shift or a wind speed gradient at any level in the atmosphere. 151. K04 IRA While flying a 3° glide slope, a headwind shears to a tailwind. Which conditions should the piexpect on the glide slope? A) Airspeed and pitch attitude decrease and there is a tendency to go below glide slope. B) Airspeed and pitch attitude increase and there is a tendency to go above glide slope.	C) The temperature at which de	w will always form.	
A) Sudden increases in wind speed of at least 16 knots, rising to 22 knots or more, lasting fo least 1 minute. B) Peak gusts of at least 35 knots for a sustained period of 1 minute or longer. C) Rapid variation in wind direction of at least 20° and changes in speed of at least 10 knots between peaks and lulls. 150.	149.	157	IRA
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between peaks and lulls. 150. I28 IRA Where does wind shear occur? A) Exclusively in thunderstorms. B) Wherever there is an abrupt decrease in pressure and/or temperature. C) With either a wind shift or a wind speed gradient at any level in the atmosphere. 151. K04 IRA While flying a 3° glide slope, a headwind shears to a tailwind. Which conditions should the piexpect on the glide slope? A) Airspeed and pitch attitude decrease and there is a tendency to go below glide slope. B) Airspeed and pitch attitude increase and there is a tendency to go above glide slope.	B) Peak gusts of at least 35 kno	ts for a sustained period of 1	I minute or longer.
Where does wind shear occur? A) Exclusively in thunderstorms. B) Wherever there is an abrupt decrease in pressure and/or temperature. C) With either a wind shift or a wind speed gradient at any level in the atmosphere. 151. K04 While flying a 3° glide slope, a headwind shears to a tailwind. Which conditions should the piexpect on the glide slope? A) Airspeed and pitch attitude decrease and there is a tendency to go below glide slope. B) Airspeed and pitch attitude increase and there is a tendency to go above glide slope.	-	ion of at least 20° and chang	ges in speed of at least 10 knots
A) Exclusively in thunderstorms. B) Wherever there is an abrupt decrease in pressure and/or temperature. C) With either a wind shift or a wind speed gradient at any level in the atmosphere. 151. K04 IRA While flying a 3° glide slope, a headwind shears to a tailwind. Which conditions should the piexpect on the glide slope? A) Airspeed and pitch attitude decrease and there is a tendency to go below glide slope. B) Airspeed and pitch attitude increase and there is a tendency to go above glide slope.	150.	128	IRA
B) Wherever there is an abrupt decrease in pressure and/or temperature. C) With either a wind shift or a wind speed gradient at any level in the atmosphere. 151. K04 IRA While flying a 3° glide slope, a headwind shears to a tailwind. Which conditions should the piexpect on the glide slope? A) Airspeed and pitch attitude decrease and there is a tendency to go below glide slope. B) Airspeed and pitch attitude increase and there is a tendency to go above glide slope.	Where does wind shear occur?		
C) With either a wind shift or a wind speed gradient at any level in the atmosphere. 151. K04 IRA While flying a 3° glide slope, a headwind shears to a tailwind. Which conditions should the pi expect on the glide slope? A) Airspeed and pitch attitude decrease and there is a tendency to go below glide slope. B) Airspeed and pitch attitude increase and there is a tendency to go above glide slope.	A) Exclusively in thunderstorms.		
151. K04 IRA While flying a 3° glide slope, a headwind shears to a tailwind. Which conditions should the pi expect on the glide slope? A) Airspeed and pitch attitude decrease and there is a tendency to go below glide slope. B) Airspeed and pitch attitude increase and there is a tendency to go above glide slope.	B) Wherever there is an abrupt o	decrease in pressure and/or	temperature.
While flying a 3° glide slope, a headwind shears to a tailwind. Which conditions should the pi expect on the glide slope? A) Airspeed and pitch attitude decrease and there is a tendency to go below glide slope. B) Airspeed and pitch attitude increase and there is a tendency to go above glide slope.	C) With either a wind shift or a w	vind speed gradient at any le	evel in the atmosphere.
expect on the glide slope? A) Airspeed and pitch attitude decrease and there is a tendency to go below glide slope. B) Airspeed and pitch attitude increase and there is a tendency to go above glide slope.	151.	K04	IRA
B) Airspeed and pitch attitude increase and there is a tendency to go above glide slope.		eadwind shears to a tailwind	d. Which conditions should the pilot
	A) Airspeed and pitch attitude de	ecrease and there is a tende	ency to go below glide slope.
C) Airspeed and pitch attitude decrease and there is a tendency to remain on the glide slope			
	C) Airspeed and pitch attitude de	ecrease and there is a tende	ency to remain on the glide slope.

152.	K04	IRA			
	ent through an inversion or ch of the following change	wind shear zone is being performed, the pilot in airplane performance?			
A) A fast rate of climb	A) A fast rate of climb and a slow rate of descent.				
B) A sudden change in	n airspeed.				
C) A sudden surge of	thrust.				
153.	129	IRA			
Why is frost considere	d hazardous to flight opera	tion?			
A) Frost changes the b	oasic aerodynamic shape o	f the airfoil.			
B) Frost decreases co	ntrol effectiveness.				
C) Frost causes early	airflow separation resulting	in a loss of lift.			
154.	129	IRA			
In which meteorologica accumulation?	al environment is aircraft st	ructural icing most likely to have the highest rate	e of		
A) Cumulonimbus clou	ıds.				
B) High humidity and f	reezing temperature.				
C) Freezing rain.					
155.	H703	IRA			
What force causes a h	elicopter to turn?				
A) Rudder pressure or	force around the vertical a	xis.			
B) Vertical lift component	ent.				
C) Horizontal lift comp	onent.				
156.	J26	IRA			
If you are departing fro your altimeter	om an airport where you ca	nnot obtain an altimeter setting, you should set			
A) on 29.92 inches Hg	ı.				
B) on the current airpo	ort barometric pressure, if k	nown.			
C) to the airport elevat	ion.				
157.	J08	IRA			
Which airspace is defined a prescribed IAP?		en designated in conjunction with an airport wh	ich		
-	ce extending upward from a controlled	700 feet or more above the surface and I airspace.			

control area.	e extending from the surf	ace and terminating at the base of the contine	ntai
	extending from the surfa	ace to 700 or 1,200 feet AGL, where designate	∍d.
158. MOAs are established to	J09	IRA	
	ft because of hazardous	or secret activities	
	ary activities from IFR tra		
, .	uring periods of high dens		
150	K04	IRA	
159.	_		
•	uired to stay on the ILS gl	•	
,	the ground speed is decre f the indicated airspeed re		
•	the ground speed is dec		
C) must be decreased in	the ground speed is dec	reaseu.	
160.	J14	IRA	
While on an IFR flight, a What action must be take		which causes a deviation from an ATC clearar	nce.
A) Notify ATC of the dev	viation as soon as possibl	e.	
B) Squawk 7700 for the	duration of the emergence	cy.	
C) Submit a detailed rep	oort to the chief of the ATC	C facility within 48 hours.	
161.	J21	IRA	
During an IFR flight in IN failure). The pilot should		s encountered, (fire, mechanical, or structural	
A) not hesitate to declar	e an emergency and obta	ain an amended clearance.	
B) wait until the situation	is immediately perilous l	before declaring an emergency.	
C) contact ATC and adv	ise that an urgency cond	ition exists and request priority consideration.	
162.	J24	IRA	
	e two way radio communi re are you expected to fol	ications failure. If you do not exercise emerger low?	ncy
A) Set transponder to coaltitude or the MEA, whi	_	on assigned route and fly at the last assigned	
B) Set transponder to coconditions.	ode 7700 for 1 minute, the	en to 7600, and fly to an area with VFR weathe	er
C) Set transponder to 7	700 and fly to an area wh	ere you can let down in VFR conditions.	

163.	J32	IRA
(Refer to figure 68.) Upon whe category based?	nich maximum airspeed is the CO	PTER VOR/DME 117° approach
A) 80 knots.		
B) 90 knots.		
C) 100 knots.		
164.	J18	IRA
You arrive at your destination performance of a contact app		nich is a prerequisite condition for the
A) Clear of clouds and at lea	st 1 SM flight visibility.	
B) A ground visibility of at least	ast 2 SM.	
C) A flight visibility of at least	t 1/2 NM.	
165.	H816	IRA
a level standard-rate turn?		bank, respectively, when establishing
A) Turn coordinator and attitude indicator and turn		
B) Attitude indicator and turnC) Turn coordinator and hea		
o) rum coordinator and nea	allig illaloator.	
166.	H814	IRA
Which instrument provides the level flight?	ne most pertinent information (prin	mary) for bank control in straight-and-
A) Turn and slip indicator.		
B) Attitude indicator.		
C) Heading indicator.		
167.	H813	IRA
What is the third fundamenta	al skill in attitude instrument flying	?
A) Instrument cross-check.		
B) Power control.		
C) Aircraft control.		
168.	H818	IRA
(Refer to figure 148.) What is instruments has malfunction		which transmits information to the
A) Climbing turn to left.		
B) Climbing turn to right.		

C) Level turn to left.		
169.	H827	IRA
During a stabilized autoro attitude indicator?	otation, approximately	y what flight attitude should be established on the
A) Two bar widths below	the artificial horizon.	
B) A pitch attitude that wi	II give an established	d rate of descent of not more than 500 feet per minute.
C) Level flight attitude.		
170.	H827	IRA
What is the primary pitch	instrument during a	stabilized autorotation?
A) Altimeter.		
B) Airspeed indicator.		
C) VSI.		
171.	H822	IRA
Which initial pitch attitude at normal cruise in a helic		ude indicator should be made to correct altitude while
A) Two bar width.		
B) One and one half bar	width.	
C) One bar width.		
172.	H828	IRA
During the initial acceleratestablished on the attitude		nt takeoff in a helicopter, what flight attitude should be
A) Level flight attitude.		
B) Two bar widths low.		
C) One bar width high.		
173.	H816	IRA
Which instrument is conschange of airspeed in a le		ower as the airspeed reaches the desired value during
A) Airspeed indicator.		
B) Attitude indicator.		
C) Altimeter.		
174.	H810	IRA
Errors in both pitch and baircraft rolls out of a	ank indication on an	attitude indicator are usually at a maximum as the

A) 180° turn.		
B) 270° turn.		
C) 360° turn.		
175.	H810	IRA
	precession 90° to any applied for	depends upon for operation is the
, <u>,</u>	eflection of the spinning wheel o	
•	e developed from the angular ve	
o) defice ting force	developed from the angular ve	locity of the spiriting wheel.
176.	H816	IRA
	e indication on the magnetic co heading in the Northern Hemisp	mpass as you roll into a standard-rate turn to the ohere?
A) The compass w	vill indicate a turn to the right, bu	ut at a faster rate than is actually occurring.
B) The compass w	vill initially indicate a turn to the	left.
C) The compass v heading of the aird		ime, then gradually catch up to the magnetic
177.	H809	IRA
What causes the r	northerly turning error in a magr	etic compass?
A) Coriolis force a	t the mid latitudes.	
B) Centrifugal forc	e acting on the compass card.	
C) The magnetic o	lip characteristic.	
178.	H816	IRA
What indication is	presented by the miniature airc	raft of the turn coordinator?
	on of the bank attitude.	
B) Direct indication	n of the bank attitude and the qu	uality of the turn.
C) Quality of the to	·	•
470	11044	ID A
179. (Defende finns 4.4	H814	IRA
·	4.) Which illustration indicates a	a coordinated turn?
A) 3.		
B) 1.		
C) 2.		
180.	H758	IRA
(Refer to figure 11	4) Which illustration indicates a	a coordinated turn?

A) 3. B) 1. C) 2.			
181.	<u> </u>	IRA ement should be made so that '2' would resul	t
B) Increase left peda	al and increase rate of turn. Il and decrease rate of turn. al and decrease angle of bank.		
182. (Refer to figure 144.) A) 1. B) 3. C) 2.	H758 Which illustration indicates a slip	IRA ping turn?	
183. (Refer to figure 144.) A) 1. B) 3. C) 2.	H814 Which illustration indicates a slip	IRA ping turn?	
A) needle indication B) needle is approxir			
A) Attitude indicator.	H807 dicates the quality of a turn? or magnetic compass. ordinator.	IRA	
186. f a standard-rate tur neading of 090° to a		IRA rould be required to turn to the left from a	

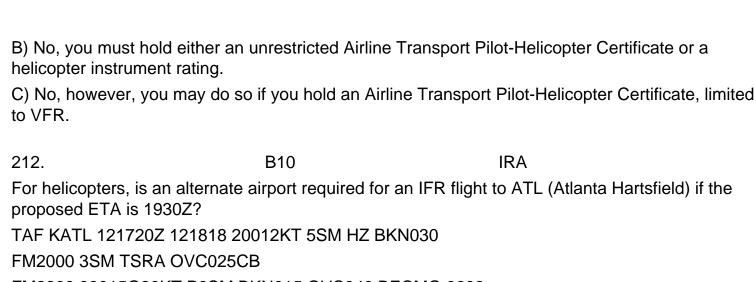
A) 30 seconds.			
B) 40 seconds.			
C) 50 seconds.			
187.	J40	IRA	
(Refer to figure 85.) Wha assigned route is V6?	t route should you take i	f cleared for the Washoe Two Departure and you	ır
A) Climb on the LOC sou	th course to WAGGE wi	here you will be vectored to V6.	
B) Climb on the LOC sou VORTAC and cross at or		GE at 9,000, turn left and fly direct to FMG ceed on FMG R 241.	
•	FMG R 241; if not at 10,	urn left and fly direct to FMG VORTAC. If at 10,00 onter depicted holding pattern and climb to	ЭО
188.	J16	IRA	
Which is true regarding the	ne use of a instrument d	eparture procedure chart?	
A) The use of instrument			
B) To use an instrument of the approved standard	•	e pilot must possess at least the textual description	on
C) To use an instrument form of the approved pro	-	e pilot must possess both the textual and graphic	;
189.	J26	IRA	
-	g descent. If the field ele	, but you fail to reset it to the local altimeter settine vation is 134 feet and your altimeter is functionin	_
C) 200 leet below MSL.			
190.	J26	IRA	
How does a pilot normally airspace below 18,000 fe	-	neter setting during an IFR flight in Class E	
A) The pilot should conta	ct ARTCC at least every	100 NM and request the altimeter setting.	
B) FSS's along the route	broadcast the weather i	nformation at 15 minutes past the hour.	
C) ATC periodically advis	ses the pilot of the prope	r altimeter setting.	
191.	J07	IRA	
	bed, what is the rule reg	arding altitude and course to be maintained durir	ıg

A) 1,000 feet above the highest o	bstacle within 4 NM of course	е.
B) 2,000 feet above the highest o	bstacle within 5 SM of course	э.
C) 1,000 feet above the highest o	bstacle within 3 NM of cours	e.
100	100	ID A
192. What is the definition of MEA?	J33	IRA
A) The lowest published altitude vacceptable navigational signal co		nce requirements and assures
B) The lowest published altitude v navigational signal coverage, two coverage.	-	•
•	•	assures acceptable navigation signal rerage, and accurate DME mileage.
193.	J33	IRA
If no MCA is specified, what is the minimum applies? A) The MEA at which the fix is ap B) The MRA at which the fix is ap C) The MOCA for the route segments	proached. proached.	a radio fix, beyond which a higher
194.	J33	IRA
ATC may assign the MOCA wher A) 22 NM of a VOR. B) 25 NM of a VOR. C) 30 NM of a VOR.	certain special conditions e	xist, and when within
195.	J17	IRA
(Refer to figure 113.) You receive	this ATC clearance: RTAC ON THE ZERO NINE	R ZERO RADIAL, LEFT TURNS'
196.	J17	IRA
(Refer to figure 117.) You receive CLEARED TO THE ABC NDB. BEARING FROM THE NDB. LEF	this ATC clearance: HOLD SOUTHEAST ON TH	

At station passage you enter the holding patt		ure 117. What is the recommended procedur	e to
A) Direct only.			
B) Teardrop only.			
C) Parallel only			
197.	J17	IRA	
When holding at an N	IDB, at what point should the	e timing begin for the second leg outbound?	
A) When the wings a turn to the outbound		rrection angle is established after completing	g the
B) When the wings a whichever occurs firs		turn to the outbound heading, or abeam the	fix,
C) When abeam the	nolding fix.		
198.	J15	IRA	
What action is recom	mended if a pilot does not w	ish to use an instrument departure procedur	e?
	delivery or ground control be		
•	control upon initial contact.	•	
•	e REMARKS section of the	IFR flight plan.	
199.	J40	IRA	
(Refer to figure 85.) WAGGE Departure?	Vhat is the minimum rate clir	mb per NM to 9,000 feet required for the WA	SH2
A) 400 feet.			
B) 750 feet.			
C) 875 feet.			
200.	H830	IRA	
	-	wn for aircraft 3 is maintained, which ADF 0° magnetic bearing TO the station?	
A) 4.			
B) 5.			
C) 8.			
201.	H830	IRA	
	-	wn for aircraft 5 is maintained, which ADF 0° magnetic bearing FROM the station?	
A) 2.			
B) 3.			

C) 4.		
202.	H830	IRA
	-	own for aircraft 2 is maintained, which ADF 5° magnetic bearing TO the station?
A) 2.		
B) 4.		
C) 5.		
203.	H830	IRA
		wn for aircraft 1 is maintained, which ADF 0° magnetic bearing TO the station?
A) 2.		
B) 4.		
C) 5.		
204.	H830	IRA
(Refer to instrumen the station would be		of this information, the magnetic bearing FROM
A) 030°.		
B) 060°.		
C) 240°.		
205.	J35	IRA
	and 86.) Which combination on slightly to the right of the LC	of indications confirm that you are approaching OC centerline on departure?
A) 1 and 3.		
B) 1 and 4.		
C) 2 and 3.		
206.	J35	IRA
(Refer to figure 89.) 1,200 feet AGL?	What type airspace exists ab	ove Bryce Canyon Airport from the surface to
A) Class D.		
B) Class E.		
C) Class G.		
207.	J42	IRA

(Refer to figure 68.) What would altimeter settings?	be the approach minimums if	you must use the Moisant Field
A) 440 1.		
3) 480 and 1/2.		
C) 580 and 1/2.		
208.	A20	IRA
Under which condition may you	act as pilot in command of a he	elicopter under IFR?
Your certificates and ratings: Prince category rating, and helicopter c		L and Airplane instrument, rotorcraft
A) If a certificated helicopter inst	rument flight instructor is on bo	pard.
B) If you meet the recent helicop	ter IFR experience requiremer	nts.
C) If you acquire a helicopter ins	trument rating and meet IFR c	urrency requirements.
209.	A20	IRA
What additional flight hours, with currency in a helicopter if you alr	•	onths, are required to maintain IFR iment simulator?
A) 3 hours of actual or simulated	instrument time in the same ty	ype helicopter.
B) None, but 6 instrument approaccomplished.	aches, holding procedures and	d tracking courses must be
C) None, but three instrument ap	oproaches must also be accom	plished.
210.	A20	IRA
What additional instrument appropriet appropriet in the control of		m to meet the recent flight
Within the preceding 6 calendar One approach in a helicopter.	months, you have accomplished	ed:
Two approaches in an airplane.		
 Two approaches in an approved	airplane simulator.	
A) None.	•	
) One approach in an airplane,	helicopter, or approved simula	ator.
C) Five approaches in a helicopt		
211.	A20	IRA
Do regulations permit you to act Pilot Certificate with ASEL, airplaterating?	•	opter in IMC if you hold a Private to tategory, and helicopter class
A) Yes, if you comply with the re	cent IFR experience requireme	ents for a helicopter.



FM2200 33015G20KT P6SM BKN015 OVC040 BECMG 0608

02008KT BKN 040 BECMG 1012 00000KT P6SM CLR=

- A) Yes, because the ceiling could fall below 2,000 feet within 2 hours before to 2 hours after the ETA.
- B) No, because the ceiling and visibility are forecast to remain at or above 1,000 feet and 3 miles, respectively.
- C) No, because the ceiling and visibility are forecast to be at or above 1,000 feet above the airport elevation (and 400 feet above the approach minima) with 3 miles visibility at the ETA to 1 hour thereafter.

213. **B10 IRA**

For helicopters, what minimum conditions must exist at the destination airport to avoid listing an alternate airport on an IFR flight plan when a standard IAP is available?

- A) From the ETA to 1 hour after the ETA, reports and forecasts indicate a ceiling 1,000 feet above the airport elevation, or at least 400 feet above the lowest applicable approach minima, whichever is higher, and visibility 2 statute miles.
- B) From 1 hour before to 1 hour after ETA, reports and forecasts indicate a ceiling of 1,000 feet above the airport elevation and visibility 2 miles.
- C) From 1 hour before to 1 hour after ETA, forecast ceiling 2,000, and visibility 3 miles.

214. **B10 IRA**

For helicopters, what minimum weather conditions must be forecast for your ETA at an alternate airport that has only a VOR approach with standard alternate minimums, for the airport to be listed as an alternate on the IFR flight plan?

- A) 800 foot ceiling and 1 statute mile (SM) visibility.
- B) 800 foot ceiling and 2 SM visibility.
- C) Ceiling 200 feet above the minimums for the approach to be flown and 1 statute mile visibility, but not less than the minimum visibility for the approach to be flown.

215. **B10 IRA**

•	approach procedure	ons must be forecast for your ETA at an alternate e, with standard alternate minimums, in order to list it
A) 600 foot ceiling and 2 SM	l visibility at your E	TA.
B) 200 foot ceiling above the your ETA.	e airport elevation a	and 1 SM visibility from 1 hour before to 1 hour after
C) 200 foot ceiling above the minimums for the approach,	• •	ms and 1 SM visibility, but not less than the visibility
216.	B10	IRA
•	•	opters, what are the weather minimums that must be has a precision approach procedure?
A) Ceiling 200 feet above th than the minimum visibility for	•	ums and at least 1 statute mile visibility, but not less
B) Ceiling 200 feet above fide visibility for the approach.	eld elevation and vi	sibility 1 statute mile, but not less than the minimum
C) 600 foot ceiling and 2 sta	tute miles visibility.	
217.	B11	IRA
•		ed by ATC, what is the minimum equipment for try flight when in the immediate vicinity of the
A) VOR receiver, transpond	er with Mode C car	pability, and two-way communications.
B) Transponder with Mode (C capability and two	o-way communications.
C) VOR (or TACAN) and two	o-way communicat	ions.
218.	B11	IRA
Aircraft being operated unde VFR and night, at least	er IFR are required	to have, in addition to the equipment required for
A) distance measuring equip	oment.	
B) dual VOR receivers.		
C) a slip skid indicator.		
219.	B10	IRA
During a precision instrumer operated below DH unless	nt approach (using	Category A minimums) a helicopter may not be
A) the ceiling is forecast to b	e at or above land	ing minimums prescribed for that procedure.

B) positioned such that a normal approach to the runway of intended landing can be made.

C) the visibility is forecast to be at or above the landing minimums prescribed for that procedure.

220.	B97	IRA
What reduction, if any, to visib helicopter instrument approac	•	ed when using a fixed wing IAP for a
A) All visibility requirements m	nay be reduced by one half.	
B) All visibility requirements m	nay be reduced by one fourth.	•
C) The visibility requirements 1/4 mile.	may be reduced by one half,	but in no case lower than 1,200 RVR or
221.	B97	IRA
All helicopters are considered A) A.	to be in which approach cate	egory for a helicopter IAP?
B) A or B, depending upon we C) B.	eight.	
222.	B97	IRA
Upon what maximum airspeed A) 100 knots. B) 90 knots.	d is the instrument approach	criteria for a helicopter based?
C) 80 knots.		
223.	B97	IRA
(Refer to figure 133.) If the Cland helicopter if cleared for the S IA) 1,200 and 1/4 mile. B) 991 and RVR 24. C) 1,300 and 1/4 mile.	•	e, what is the LOC/VOR minima for a Municipal?
224.	B97	IRA
	the helicopter MDA for a stra	ight in VOR RWY 36 approach at Price/
225.	B97	IRA
(Refer to figure 128.) What is Price/Carbon County Airport?	the helicopter landing minimu	um for the VOR RWY 36 approach at
A) 500 foot ceiling and 1/2 mil	e visibility.	
B) 1 mile visibility.		

C) one half mile visibility.		
226.	J42	IRA
runway environment (Paso F	Robles Municipal A	ould a missed approach procedure be initiated if the Airport) is not in sight?
A) After descending to 1,440		
•	•	1 NM DME, whichever occurs first.
C) When you reach the estal 1/2 mile.	olished missed ap	proach point and determine the visibility is less than
227.	B97	IRA
•	ach Control advise	R during a straight-in RNAV RWY 36 approach in a es that the ceiling is 400 feet and the visibility is 1/4 e approach and land?
A) No, you may not reduce to percent.	ne visibility prescr	ibed for Category A airplanes by more than 50
B) Yes, only a 1/4 mile visibil RNAV.	ity or an RVR of 1	1,200 feet is required for any approach, including
C) No, neither the ceiling nor	the visibility mee	t regulatory requirements.
228.	157	IRA
Area forecasts generally incl	ude a forecast pe	riod of 18 hours and cover a geographical
A) terminal area.		
B) area less than 3,000 squa	ıre miles.	
C) area the size of several st	ates.	
229.	157	IRA
Which forecast provides spe weather, and obstructions to		oncerning expected sky cover, cloud tops, visibility, format?
A) DFW FA 131240.		
B) MEM TAF 132222.		
C) 249 TWEB 252317.		
230.	J11	IRA
When are ATIS broadcasts υ	ıpdated?	
A) Every 30 minutes if weath	er conditions are	below basic VFR; otherwise, hourly.
		less of content change or reported values.
C) Only when the ceiling and	l/or visibility chand	ges by a reportable value.

231.	I 55	IRA	
A ceiling is defined as the he	eight of the		
A) highest layer of clouds or	obscuring phenon	nena aloft that covers over 6/10 of the sky.	
B) lowest layer of clouds tha	t contributed to the	e overall overcast.	
C) lowest layer of clouds or	obscuring phenom	ena aloft that is reported as broken or overcast.	
232.	J25	IRA	
A pilot reporting turbulence tattitude should report it as	that momentarily ca	auses slight, erratic changes in altitude and/or	
A) light turbulence.			
B) moderate turbulence.			
C) light chop.			
233.	157	IRA	
		conditions potentially hazardous	
A) particularly to light aircraf	-	containers poternially nazaraeae	
B) to all aircraft.			
C) only to light aircraft opera	ations.		
e, em, te ng. te ameram ep ere			
234.	l65	IRA	
(Refer to figure 9.) What typ 0800Z?	e of thunderstorm	activity is expected over Montana on April 4th at	
A) General.			
B) None.			
C) A slight risk of severe thu	ınderstorms.		
005	105	ID A	
235. (Dafanta (ingga 2) T ha 2an	I65	IRA	
(Refer to figure 9.) The Seventh planning, provides what info		ok Chart, which is used primarily for advance	
A) An 18-hour categorical ou lines, and of expected torna		our valid time for severe weather watch, thundersto	rm
B) A preliminary 12-hour out turbulence.	tlook for severe thu	understorm activity and probable convective	
C) A 24-hour severe weathe	r outlook for possil	ble thunderstorm activity.	
236.	J25	IRA	
Maximum downdrafts in a m	icroburst encounte	er may be as strong as	
A) 8,000 feet per minute.			
B) 7,000 feet per minute.			

C) 6,000 feet per minute.		
237.	J25	IRA
What is the expected duration A) Two minutes with maximu		
B) One microburst may conti	•	•
C) Seldom longer than 15 mi	nutes from the time t	he burst strikes the ground until dissipation.
238.	I 29	IRA
What is an operational consid	deration if you fly into	rain which freezes on impact?
A) You have flown into an are		
B) Temperatures are above f		ier altitude.
C) You have flown through a	cold front.	
239.	H954	IRA
Which conditions result in the	formation of frost?	
A) The temperature of the co are falling.	llecting surface is at	or below freezing and small droplets of moisture
B) When dew forms and the	temperature is below	freezing.
C) Temperature of the collect is colder than freezing.	ing surface is below	the dewpoint of surrounding air and the dewpoint
240.	l24	IRA
The presence of ice pellets a	t the surface is evide	nce that
A) there are thunderstorms in	the area.	
B) a cold front has passed.		
C) there is freezing rain at a l	nigher altitude.	
241.	l22	IRA
Under what condition is press	sure altitude and den	sity altitude the same value?
A) At standard temperature.		
B) When the altimeter setting	_	
C) When indicated, and press	sure altitudes are the	e same value on the altimeter.
242.	l21	IRA
The primary cause of all char	nges in the Earth's w	eather is
A) variation of solar energy re	eceived by the Earth'	s regions.
B) changes in air pressure ov	er the Earth's surfac	e.e

C) movement of the air masses.		
243.	130	IRA
Which thunderstorms generally pr destructive winds? A) Warm front. B) Squall line. C) Air mass.	oduce the most severe cor	nditions, such as heavy hail and
244.	I21	IRA
What feature is associated with a AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	temperature inversion?	
245.	I21	IRA
If the air temperature is +8 °C at a lapse rate exists, what will be the a A) 3,350 feet MSL. B) 5,350 feet MSL. C) 9,350 feet MSL.		nd a standard (average) temperature?
246.	I21	IRA
The most frequent type of ground A) radiation on a clear, relatively s B) warm air being lifted rapidly alo C) the movement of colder air und	till night. ft in the vicinity of mountain	nous terrain.
247.	I30	IRA
What are the requirements for the A) A cumulus cloud with sufficient B) A cumulus cloud with sufficient C) Sufficient moisture, an unstable	moisture. moisture and an inverted I	apse rate.
248.	130	IRA
Which weather phenomenon is alv A) Lightning. B) Heavy rain showers.	ways associated with a thu	nderstorm?

C) Supercooled raindrops.		
249.	128	IRA
What is an important characte	eristic of wind shea	ar?
A) It is an atmospheric condit	tion that is associat	ed exclusively with zones of convergence.
•		ow level air masses is the principal generating force.
·	_	sociated with a low level temperature inversion, a
jet stream, or a frontal zone.	•	·
050	100	ID A
250.	128	IRA
What is an important character		
,		ces generated by thunderstorms.
B) It usually exists only in the inversion.	vicinity of thunder	storms, but may be found near a strong temperature
C) It may be associated with atmosphere.	either a wind shift	or a wind speed gradient at any level in the
251.	123	IRA
Hazardous wind shear is com	nmonly encountere	d near the ground
A) during periods when the w	ind velocity is stroi	nger than 35 knots.
B) during periods when the w	ind velocity is stroi	nger than 35 knots and near mountain valleys.
C) during periods of strong te	emperature inversion	on and near thunderstorms.
252.	H807	IRA
During a skidding turn to the force, and load factor?	right, what is the re	elationship between the component of lift, centrifugal
A) Centrifugal force is less th	an horizontal lift ar	d the load factor is increased.
B) Centrifugal force is greate	r than horizontal lif	and the load factor is increased.
C) Centrifugal force and horiz	zontal lift are equal	and the load factor is decreased.
253.	J26	IRA
How should you preflight che	ck the altimeter pri	or to an IFR flight?
A) Set the altimeter to 29.92 determine the true altitude to	~	rrent temperature and the altimeter indication, field elevation.
B) Set the altimeter first with altitude should correspond to		nd then the current altimeter setting. The change in ing.
C) Set the altimeter to the cuactual elevation for acceptable		ng. The indication should be within 75 feet of the

254.	J03	IRA
The operation of an airport ro	tating beacon dur	ing daylight hours may indicate that
A) the in flight visibility is less airspace.	than 3 miles and	the ceiling is less than 1,500 feet within Class E
B) the ground visibility is less D airspace.	than 3 miles and/	or the ceiling is less than 1,000 feet in Class B, C, or
C) an IFR clearance is require	ed to operate with	in the airport traffic area.
255.	J08	IRA
Where are VFR on Top operation	ations prohibited?	
A) In Class A airspace.		
B) During off airways direct fl	ights.	
C) When flying through Class	B airspace.	
256.	J18	IRA
-	t is the pilot expec	maneuver for a specific approach and landing on the ted to commence this maneuver? ing approach.
B) As soon as possible after		
C) At the localizer MDA minir	num and when the	runway is in sight.
257.	J19	IRA
What responsibility does the conditions?	pilot in command	of an IFR flight assume upon entering VFR
A) Report VFR conditions to	ARTCC so that ar	amended clearance may be issued.
B) Use VFR operating proced	dures.	
C) To see and avoid other tra	affic.	
258.	J18	IRA
Aircraft approach categories	are based on	
A) certificated approach spee	ed at maximum gro	oss weight.
B) 1.3 times the stall speed in	n landing configura	ation at maximum gross landing weight.
C) 1.3 times the stall speed a	t maximum gross	weight.
259.	J18	IRA
When the approach procedur greater than	re involves a proce	edure turn, the maximum speed should not be
A) 180 knots IAS.		
B) 200 knots IAS.		

C) 250 knots IAS.			
260.	J18	IRA	
When simultaneous appro A) On tower frequency. B) On approach control fr		ow does each pilot receive radar a	dvisories?
C) One pilot on tower free	juency and the other on a	approach control frequency.	
261.	J18	IRA	
What are the main differe	nces between a visual ar	pproach and a contact approach?	
A) The pilot must request higher weather minimums	• •	pilot may be assigned a visual app	roach and
B) The pilot must request contact approach if VFR o		eport having the field in sight; ATC r	may assign a
		may clear the pilot for a contact ap roach can be made under VFR cor	•
262.	J18	IRA	
What are the requirement is on an instrument flight		to an airport that has an approved	IAP, if the pilot
A) The controller must de remain clear of clouds.	termine that the pilot can	see the airport at the altitude flown	and can
		en by ATC and the controller must he does not be reasonably sure the pilot can	
C) The pilot must request remaining clear of clouds.		ast 1 mile visibility, and be reasona	ıbly sure of
263.	J18	IRA	
When may you obtain a c	ontact approach?		
A) ATC may assign a con are clear of clouds.	tact approach if VFR con	ditions exist or you report the runw	ay in sight and
B) ATC may assign a con mile.	tact approach if you are	pelow the clouds and the visibility is	s at least 1
C) ATC will assign a cont	act approach only upon r	equest if the reported visibility is at	least 1 mile.
264.	J18	IRA	
A contact approach is an	approach procedure that	may be used	
A) in lieu of conducting a	SIAP.		
B) if assigned by ATC and	d will facilitate the approa	ch.	

C) in lieu of a visual approa	ch.	
265.	H814	IRA
As power is reduced to character primary for pitch, bank,		to low cruise in level flight, which instruments ?
A) Attitude indicator, headin B) Altimeter, attitude indicat		d pressure gauge or tachometer.
C) Altimeter, heading indica	•	
266.	H816	IRA
What is the primary bank in	strument once a standa	rd-rate turn is established?
A) Attitude indicator.B) Turn coordinator.		
C) Heading indicator.		
267.	H815	IRA
What instrument(s) is(are) s from straight-and-level flight A) Heading indicator.		ent when entering a constant airspeed climb
B) Attitude indicator and tur	n coordinator.	
C) Turn coordinator and hea		
268.	H816	IRA
What is the primary bank in rate turn to the left?	strument while transition	ning from straight-and-level flight to a standard-
A) Attitude indicator.		
B) Heading indicator.		
C) Turn coordinator (miniator)	ure aircraft).	
269.	H813	IRA
What is the first fundamenta	al skill in attitude instrun	nent flying?
A) Aircraft control.		
B) Instrument cross-check.		
C) Instrument interpretation		
270.	H818	IRA
(Refer to figure 150.) What	is the flight attitude? On	e instrument has malfunctioned.
A) Climbing turn to the right		
B) Climbing turn to the left.		

C) Descending tur	n to the right.	
271.	H818	IRA
(Refer to figure 14 instruments has mA) Level turn to thB) Level turn to thC) Straight-and-le	nalfunctioned. e right. e left.	ne system which transmits information to the
272.	H818	IRA
•	-6.) Identify the system that has taight-and-level flight.	failed and determine a corrective action to return
A) Static/pitot syst attitude indicator.	em is blocked; lower the nose a	nd level the wings to level flight attitude by use of
•	·	eft to level wings, and pitchup to reduce airspeed left to level wings, and raise the nose to reduce
273.	H816	IRA
What is the primant A) Altimeter. B) VSI. C) Airspeed indicate		shing a constant altitude standard-rate turn?
274.	H813	IRA
A) Altimeter and a B) Altimeter and V	•	
275.	H815	IRA
	ry pitch instrument during a stab or.	ilized climbing left turn at cruise climb airspeed?
276.	H814	IRA
_	vel flight at constant thrust, whic	h instrument would be the least appropriate for

A) Altimeter.		
B) VSI.		
C) Attitude indicator.		
,		
277.	H814	IRA
As a rule of thumb, al	Ititude corrections of less tha	n 100 feet should be corrected by using a
A) full bar width on th	e attitude indicator.	
B) half bar width on th	ne attitude indicator.	
C) two bar width on th	ne attitude indicator.	
278.	H818	IRA
•	•	e attitude indicator has exceeded its limits, which attitude before starting recovery?
A) Turn indicator and	VSI.	
B) Airspeed and altim	neter.	
C) VSI and airspeed	to detect approaching VSI or	VMO.
279.	H818	IRA
(Refer to figure 147.) indicated?	Which is the correct sequen	ce for recovery from the unusual attitude
A) Level wings, add p	ower, lower nose, descend t	o original attitude, and heading.
B) Add power, lower	nose, level wings, return to o	riginal attitude and heading.
C) Stop turn by raisin original attitude and h		at the same time, lower the nose, and return to
280.	H812	IRA
How should you prefl	ight check the altimeter prior	to an IFR flight?
•	•	ith current temperature and the altimeter npare with the field elevation.
	rst with 29.92 inches Hg and spond to the change in setting	then the current altimeter setting. The change in g.
C) Set the altimeter to actual elevation for a	_	J. The indication should be within 75 feet of the
281.	H816	IRA
On what headings wi bank of approximatel	_	d most accurately during a level 360° turn, with a
A) 135° through 225°		
B) 90° and 270°.		

C) 180° and 0°.			
A) swing opposite to the B) exhibit the same number 1	H812 magnetic compass should he direction of turn when to umber of degrees of dip as dicate known headings.	urning from north.	
283. What does the miniator A) Rate of roll and rate B) Angle of bank and C) Angle of bank.		IRA dinator directly display?	
A) The miniature aircr	aft will show a turn to the l	IRA pordinator during a left turn while taxiing? eft and the ball remains centered. eft and the ball moves to the right. main centered.	
A) Instrument departu B) The pilot in comma	and must accept an instrum	IRA e procedures? ssued unless requested by the pilot. nent departure procedure when issued by ATC. oted, the pilot must possess at least a textual	
inches Hg during desc		IRA but not reset to the local altimeter setting of 30. 650 feet and the altimeter is functioning proper?	
	•	IRA I off the airway being flown, may be inadequate se, which altitude is designated for the fix?	at

B) MRA.		
C) MCA.		
288.	J33	IRA
The altitude that provides accepta clearance requirements, is the mi	-	rage for the route, and meets obstacle
A) obstacle clearance altitude.		
B) reception altitude.		
C) enroute altitude.		
289.	J18	IRA
What obstacle clearance and nav Altitudes depicted on the IAP cha		pilot assured with the Minimum Sector
A) 1,000 feet and acceptable nav facility.	igation signal coverage within	n a 25 NM radius of the navigation
B) 1,000 feet within a 25 NM radi coverage.	us of the navigation facility, b	ut not acceptable navigation signal
C) 500 feet and acceptable navig facility.	ation signal coverage within a	a 10 NM radius of the navigation
290.	J17	IRA
(Refer to figure 113.) You receive	this ATC clearance:	
CLEARED TO THE ABC VOR	TAC. HOLD SOUTH ON THE	ONE EIGHT ZERO RADIAL'
What is the recommended proced	dure to enter the holding patte	ern?
A) Teardrop only.		
B) Direct only. C) Parallel only.		
o) i dianoi orny.		
291.	J17	IRA
(Refer to figure 115.) You receive		
HOLD WEST OF THE ONE FIVE VORTAC, FIVE MILE LEGS, LEF		INE ZERO RADIAL OF ABC
		ling pattern correctly complies with
these instructions, and what is the	e recommended entry proced	dure?
A) 1; teardrop.		
B) 2; direct.		
C) 1; direct.		
292.	J17	IRA

(Refer to figure 112.) You arrive at the 15 correctly complies with the ATC clearance 'HOLD WEST OF THE ONE FIVE DME VORTAC, FIVE MILE LEGS, LEFT TURN	e below, and what is the FIX ON THE ZERO N	e recommended	entry procedure?
A) 1; teardrop entry.			
B) 1; direct entry.			
C) 2; direct entry.			
293.	H948	IRA	
(Refer to the FD excerpt below, and use the Determine the time to be entered in block	•	o the flight plann	ed altitude.)
Route of flight	Figures 27, 28, 29, 30, and 31		
Flight log & MAG VAR	Figure 28		
GNATS ONE DEPARTURE and Excerpt from AFD	Figure 30		
FT	3000	6000	9000
ОТН	0507	2006+03	2215-05
A) 1 hour 10 minutes.			
B) 1 hour 15 minutes.			
C) 1 hour 20 minutes.			
294. J06	I	RA	
What is the purpose of FDC NOTAMs?			
 A) To provide the latest information on the scheduled broadcasts. 	e status of navigation f	acilities to all FS	S facilities for
B) To issue notices for all airports and nav	rigation facilities in the	shortest possible	e time.
C) To advise of changes in flight data whice aeronautical charts, and flight restrictions			re (IAP),
295. H830		IRA	
(Refer to figure 105.) If the magnetic head illustration would indicate the aircraft is on	•		
A) 1.			
B) 4.			
C) 8.			
296. H830		IRA	

(Refer to instruments in figure station would be	e 102.) On the basis of this inform	ation, the magnetic bearing TO the
A) 175°.		
B) 255°.		
C) 355°.		
297.	H830	IRA
(Refer to instruments in figure the station would be	e 102.) On the basis of this inform	ation, the magnetic bearing FROM
A) 175°.		
B) 255°.		
C) 355°.		
298.	H830	IRA
(Refer to instruments in figure station would be	e 103.) On the basis of this inform	ation, the magnetic bearing TO the
A) 060°.		
B) 240°.		
C) 270°.		
299.	H832	IRA
As a rule of thumb, to minimiz consider the reading as accur	_	from the facility should you be to
_	n 1,000 feet of altitude above the	facility.
B) One or more miles for each	n 1,000 feet of altitude above the	facility.
C) No specific distance is spe	cified since the reception is line o	of sight.
300.	J01	IRA
VORTAC facilities used to de A) 75 NM. B) 100 NM.	I airways at 17,000 feet MSL in th fine a direct route of flight should	` ,
C) 200 NM.		
301.	H831	IRA

C) 5 NM.		
302.	H831	IRA
What angular deviati CDI?	on from a VOR course cente	erline is represented by a full scale deflection of the
A) 4°.		
B) 5°		
C) 10°.		
303.	H831	IRA
When using VOR for	navigation, which of the following	owing should be considered as station passage?
A) The first movemen	nt of the CDI as the airplane	enters the zone of confusion.
B) The moment the 1	ΓΟ FROM indicator becomes	s blank.
C) The first positive,	complete reversal of the TO	FROM indicator.
304.	J01	IRA
How should the pilot checkpoint on the air		when the aircraft is located on the designated
	eaded directly toward the V0 4° of that radial with a TO inc	OR and the OBS set to 000°, the CDI should center dication.
B) Set the OBS on the with a FROM indication	•	I must center within plus or minus 4° of that radial
C) Set the OBS on 1	80° plus or minus 4°; the CD	I should center with a FROM indication.
305.	J01	IRA
When using VOT to indicate that the aircr		, the CDI should be centered and the OBS should
A) 090 radial.		
B) 180 radial.		
C) 360 radial.		
306.	J01	IRA
Which is the maximu directly over the airbo		ication when the CDI is centered and the aircraft is
A) Plus or minus 6° o	of the designated radial.	
B) Plus or minus 4° o	of the designated radial.	
C) Plus 6° or minus 4	4° of the designated radial.	
307.	J35	IRA

Refer to rigure 91.) W	rial is the function of the Gi	eat Fails NCO (Tellowstone vicinity)?	
A) Long range commu	nications outlet for Great Fa	alls Center.	
3) Remote communica	ations outlet for Great Falls	FSS.	
C) Satellite remote cor	ntrolled by Salt Lake Center	with limited service.	
308.	J35	IRA	
Refer to figure 91.) W rom DBS VORTAC or		g altitude at SABAT intersection when eastbou	nd
A) 8,300 feet.			
3) 11,100 feet.			
C) 13,000 feet.			
309.	J33	IRA	
What does the Runwa epresent?	y Visual Range (RVR) valu	e, depicted on certain straight in IAP Charts,	
A) The slant range dis slope.	tance the pilot can see dow	n the runway while crossing the threshold on g	lide
3) The horizontal dista	ince a pilot should see whe	n looking down the runway from a moving aircr	aft.
C) The slant visual ran	ge a pilot should see down	the final approach and during landing.	
310.	J18	IRA	
What does the absenc	e of the procedure turn bar	b on the plan view on an approach chart indica	te?
A) A procedure turn is	not authorized.		
B) Teardrop-type proc	edure turn is authorized.		
C) Racetrack-type pro	cedure turn is authorized.		
311.	J41	IRA	
	_	should you plan to depart CREEK intersection?	>
۱۱۵۱۵۲ که ۱۱۹۵۱ که ۱۱۵۱ که ۱۱۵۱ که ۱۱۵۱ که ۱۱۵۱ که ۱۱۵۱ که ۱	a Tirkij en willer nedding (should you plan to dopart of Left interestion.	
3) 040°.			
C) 350°.			
3, 000 .			
312.	J42	IRA	
Refer to figure 129.) V	-	uipment is required to be operative for RNAV R	WY
A) An approved RNAV	receiver that provides both	n horizontal and vertical guidance.	
B) A transponder and a	an approved RNAV receive	r that provides both horizontal and vertical	

C) Any approved RNAV receiver.

313.	J01	IRA
What are the main differences be	etween the SDF and the local	izer of an ILS?
A) The useable off course indicat	tions are limited to 35° for the	localizer and up to 90° for the SDF.
B) The SDF course may not be a	lligned with the runway and th	ne course may be wider.
C) The course width for the local 12°.	izer will always be 5° while th	e SDF course will be between 6° and
314.	J34	IRA
(Refer to figures 59 and 60.) Wha	at are the operating hours (lo	cal standard time) of the Houston
A) 0600 to 2200.		
B) 0700 to 2300.		
C) 1800 to 1000.		
315.	J34	IRA
(Refer to figure 46.) What are the Terminal when daylight savings t		e) of the ATIS for the Yakima Air
A) 0500 to 2100 local.		
B) 0600 to 2200 local.		
C) 0700 to 2300 local.		
316.	A20	IRA
What minimum conditions are ne	cessary for the instrument ap	pproaches required for IFR currency?
A) The approaches may be made combination of these.	e in an aircraft, approved inst	rument ground trainer, or any
B) At least three approaches mus	st be made in the same cated	gory of aircraft to be flown.
C) At least three approaches mus	st be made in the same cated	gory and class of aircraft to be flown.
317.	A20	IRA
To meet the minimum instrument need	t experience requirements, w	ithin the last 6 calendar months you
 A) six instrument approaches, ho appropriate category of aircraft. 	olding procedures, and interce	epting and tracking courses in the
B) six hours in the same category	y aircraft.	
C) six hours in the same category	y aircraft, and at least 3 of the	e 6 hours in actual IFR conditions.
318.	A20	IRA
Which flight time may be logged	as instrument time when on a	an instrument flight plan?

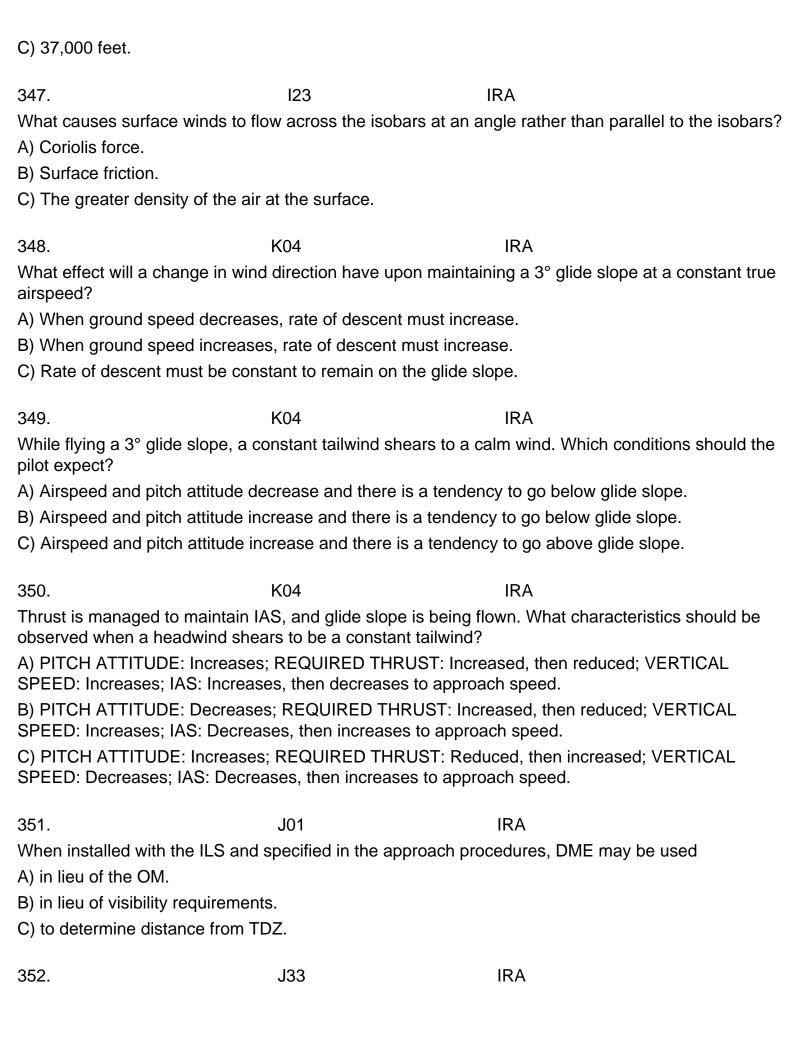
B) Only the time the aircraft was B) Only the time you controlled to C) Only the time you were flying	the aircraft solely by reference	
319.	B13	IRA
Your aircraft had the static press year, and was found to comply vapproved for use in controlled ain A) January 5, next year.	vith FAA standards. These syst	d and inspected on January 5, of this tems must be reinspected and
B) January 5, 2 years hence.		
C) January 31, 2 years hence.		
320.	B07	IRA
Who is responsible for determining the CFR part 91 requirements for A) Owner. B) Operator. C) Pilot-in-command.	•	as been checked and found to meet
321.	B10	IRA
No person may operate an aircra A) and receives a clearance by the		IFR unless he/she files a flight plan
B) prior to takeoff and requests to and receives a clearance price.	•	•
322.	B08	IRA
n the case of operations over a altitude is prescribed, no person A) 500 feet above the highest of	may operate an aircraft under	inous area where no other minimum IFR below an altitude of
B) 1,000 feet above the highest	obstacle.	
C) 2,000 feet above the highest	obstacle.	
323.	B08	IRA
Before beginning any flight unde nformation concerning that fligh	<u>.</u>	ust become familiar with all available
A) all instrument approaches at	the destination airport.	
	•	mance at the destination airport.
C) the runway lengths at airports	s of intended use, and the aircr	aft's takeoff and landing data.

324.	B11	IRA
_	_	ce at or below 2,500 feet AGL, an operable coded equired in all controlled airspace at and above
B) 10,000 feet MSL.		
C) Flight level (FL) 180.		
O) I light level (I L) 100.		
325.	157	IRA
Which primary source shouthe planned ETA?	ıld be used to obtain fo	precast weather information at your destination for
A) Area Forecast.		
B) Radar Summary and W	eather Depiction Chart	S.
C) Terminal Aerodrome Fo	recast (TAF).	
326.	163	IRA
(Refer to figure 2.) What apshould a pilot expect when A) 265° true; 100 knots; ISB) 270° true; 110 knots; ISB) 260° magnetic; 100 knots	planning for a flight ov A +3 °C. A +5 °C.	ion, speed, and temperature (relative to ISA) ver EMI at FL 270?
327.	l63	IRA
Which values are used for	winds aloft forecasts?	
A) Magnetic direction and I	knots.	
B) Magnetic direction and I	MPH.	
C) True direction and knots	S.	
328.	157	IRA
What is the maximum fored	cast period for AIRMET	Γ's?
A) Two hours.	·	
B) Four hours.		
C) Six hours.		
329.	J11	IRA
Absence of the sky condition	on and visibility on an A	ATIS broadcast specifically implies that
A) the ceiling is more than	5,000 feet and visibility	/ is 5 miles or more.
B) the sky condition is clea	r and visibility is unres	tricted.
C) the ceiling is at least 3,0	000 feet and visibility is	5 miles or more.

330.	I 54	IRA
The Hazardous Inflight Weather VORs of	Advisory Service (HIWAS)	is a continuous broadcast over selected
A) SIGMETs, CONVECTIVE SIG Center Weather Advisories.	SMETs, AIRMETs, Severe	Weather Forecasts Alerts (AWW), and
B) SIGMETs, CONVECTIVE SIG Forecast Alerts (AWW).	GMETs, AIRMETs, Wind St	near Advisories, and Severe Weather
C) Wind Shear Advisories, Rada AIRMETs, and Center Weather	•	ETs, CONVECTIVE SIGMETs,
331.	156	IRA
	.	ularly concerned about the hazard of n icing conditions (current and forecast)
A) Low-Level Significant Weather	r Prognostic Chart, and the	e Area Forecast.
B) The Area Forecast, and the F	reezing Level Chart.	
C) Pilot weather reports (PIREP'	s), AIRMET's, and SIGME ⁻	Γ's.
332.	I56	IRA
Interpret this PIREP.		
MRB UA/OV MRB/TM1430/FL06	60/TPC182/SK BKN BL/W	⟨ RA/TB MDT.
A) Ceiling 6,000 feet intermittent westward.	ly below moderate thunder	showers; turbulence increasing
B) FL 60,000, intermittently below	w clouds; moderate rain, tu	rbulence increasing with the wind.
C) At 6,000 feet; between layers	; moderate turbulence; mod	derate rain.
333.	163	IRA
(Refer to figure 12.) What is the a C)?	approximate wind direction	and velocity at 34,000 feet (see arrow
A) 290°/50 knots.		
B) 330°/50 knots.		
C) 090°/48 knots.		
334.	165	IRA
(Refer to figure 9.) The Severe V	Veather Outlook Chart dep	icts
A) areas of probable severe thur	nderstorms by the use of si	ngle hatched areas on the chart.
B) areas of forecast, severe or ea	xtreme turbulence, and are	eas of severe icing for the next 24 hours.
C) areas of general thunderstorn	n activity (excluding severe	e) by the use of hatching on the chart.

335.	I23	IRA
Which force, in the Northern Hem until parallel to the isobars?	nisphere, acts at a	right angle to the wind and deflects it to the right
A) Centrifugal.		
B) Pressure gradient.		
C) Coriolis.		
336.	127	IRA
Which weather phenomenon is a	lways associated	with the passage of a frontal system?
A) A wind change.		
B) An abrupt decrease in pressur	e.	
C) Clouds, either ahead or behind	d the front.	
337.	129	IRA
Which family of clouds is least like	ely to contribute to	structural icing on an aircraft?
A) Low clouds.		
B) High clouds.		
C) Clouds with extensive vertical	development.	
338.	132	IRA
A jet stream is defined as wind of	:	
A) 30 knots or greater.		
B) 40 knots or greater.		
C) 50 knots or greater.		
339.	l25	IRA
Stability can be determined from	which measureme	ent of the atmosphere?
A) Low level winds.		
B) Ambient lapse rate.		
C) Atmospheric pressure.		
340. l21		IRA
How much colder than standard t in the following excerpt from the \	· · · · · ·	forecast temperature at 9,000 feet, as indicated rature Aloft Forecast?
FT 6000	·	9000
0737-04		1043-10
A) 3 °C.		
B) 10 °C.		

C) 7 °C.		
341. A common type of ground or sur A) warm air being lifted rapidly a B) the movement of colder air ov C) ground radiation on clear, con	loft in the vicinity of mountainer warm air, or the movem	ent of warm air under cold air.
342.The presence of standing lenticeA) a jet stream.B) very strong turbulence.C) heavy icing conditions.	l28 ular altocumulus clouds is a	IRA a good indication of
343.Standing lenticular clouds, in moA) an inversion.B) unstable air.C) turbulence.	I28 ountainous areas, indicate	IRA
344.If you fly into severe turbulence,A) Constant airspeed (VA).B) Level flight attitude.C) Constant altitude and constant	-	IRA ild you attempt to maintain?
flight attitude.	roceed toward an area of kering speed and maintain a turbulence penetration airs	nown VFR conditions. constant altitude. speed and attempt to maintain a level
346.The average height of the troposA) 20,000 feet.B) 25,000 feet.	I20 sphere in the middle latitud	IRA es is



Reception of signals from an of designated MEA. In this case, v		nadequate to identify the fix at the the the fix?
A) MRA.	-	
B) MCA.		
C) MOCA.		
353.	H832	IRA
(Refer to figure 55.) As a guide change should be used for eac A) 2° to 3°.	•	now many degrees of relative bearing the desired arc?
B) 5° maximum.		
C) 10° to 20°.		
354.	J11	IRA
If a control tower and an FSS a FSS during those periods wher	•	, which function is provided by the
A) Automatic closing of the IFR	flight plan.	
B) Approach control services.		
C) Airport Advisory Service.		
355.	J05	IRA
(Refer to figure 138.) What night runway and the threshold lights	-	rized between the approach end of the
A) No aircraft operations are pe	ermitted short of the threshold	lights.
B) Only taxi operations are per	mitted in the area short of the t	hreshold lights.
C) Taxi and takeoff operations green threshold lights.	are permitted, providing the tal	keoff operations are toward the visible
356.	J08	IRA
What minimum aircraft equipme	ent is required for operation wi	thin Class C airspace?
A) Two-way communications a	nd Mode C transponder.	
B) Two-way communications.		
C) Transponder and DME.		
357.	J08	IRA
The aircraft's transponder fails	during flight within Class D airs	space.
A) The pilot should immediately	request clearance to depart t	he Class D airspace.
B) No deviation is required bec	ause a transponder is not requ	ired in Class D airspace.
C) Pilot must immediately requ	est priority handling to proceed	d to destination.

358.	B09	IRA	
	clouds at 13,500 feet MSL	visibility and distance from clouds required in (above 1,200 feet AGL) in Class G airspace	
A) 5 miles; (A) 1,000 fe	eet; (C) 2,000 feet; (D) 500	feet.	
B) 3 miles; (A) 1,000 fe	eet; (C) 1 mile; (D) 1,000 fe	et.	
C) 5 miles; (A) 1,000 fe	eet; (C) 1 mile; (D) 1,000 fe	et.	
359.	J18	IRA	
When may a pilot make	e a straight in landing, if us	ing an IAP having only circling minimums?	
A) A straight in landing circle to land on the rur	•	pilot may continue to the runway at MDA and t	then
B) The pilot may land s	straight in if the runway is tl	ne active runway and he has been cleared to la	and.
,	may be made if the pilot h nding, and has been cleare	as the runway in sight in sufficient time to make	e a
360.	J33	IRA	
What is meant when do vectored to a Victor air	-	ou to 'resume own navigation' after you have b	een
A) You should maintain	n the airway by use of your	navigation equipment.	
B) Radar service is terr	minated.		
C) You are still in rada	r contact, but must make p	osition reports.	
361.	J17	IRA	
Where a holding patter executed within	n is specified in lieu of a pr	ocedure turn, the holding maneuver must be	
A) the 1-minute time lin	nitation or DME distance a	s specified in the profile view.	
B) a radius of 5 miles f	rom the holding fix.		
C) 10 knots of the spec	cified holding speed.		
362.	J18	IRA	
What conditions are ne	cessary before ATC can a	uthorize a visual approach?	
A) You must have the	preceding aircraft in sight,	and be able to remain in VFR weather condition	ns.
B) You must have the a and land in IFR condition		ding aircraft in sight, and be able to proceed to	١,
C) You must have the ato the airport in VFR co		ng aircraft to be followed, and be able to proce	ed

J19

363.

IRA

A) Automatically when ATC in B) Immediately upon acceptar	ted during a visual approach? structs the pilot to contact the tower. nce of the approach by the pilot. r service terminated; resume own na	
364.	H816	IRA
During standard-rate turns, wh A) Attitude indicator. B) Heading indicator. C) Turn and slip indicator or tu	nich instrument is considered 'primar	y' for bank?
365.	H808	IRA
Altimeter setting is the value to indicates	o which the scale of the pressure alti	meter is set so the altimeter
A) pressure altitude at sea levB) true altitude at field elevationC) pressure altitude at field ele	on.	
366.	H809	IRA
compass indicates 110°. What magnetic compass? A) Select the free gyro mode a	ding on a remote indicating compass t action is required to correctly align and depress the counter clockwise had be and depress the clockwise heading	the heading indicator with the eading drive button.
C) Select the free gyro mode a	and depress the clockwise heading of	drive button.
367.	J40 IRA	
(Refer to figure 77.) At which r A) 6,500 feet MSL. B) 1,400 feet MSL. C) 10,200 feet MSL.	ninimum altitude should you cross th	ne STAKK intersection?
368.	H931	IRA
	What CAS must be used to maintain	

369.	J15	IRA
(Refer to figure 27.) What aircraf A) T.	t equipment code should be e	entered in block 3 of the flight plan?
B) U.		
C) A.		
370.	J15	IRA
From what source can you obtaiı	n the latest FDC NOTAM's?	
A) Notices to Airmen publications	S.	
B) FAA AFSS/FSS.		
C) Airport/Facility Directory.		
371.	J18	IRA
•	ss through the localizer cours	not been cleared for the approach. It se. What action should be taken?
B) Continue on the assigned hea	ading and query ATC.	
C) Start a turn to the inbound he	ading and inquire if you are cl	eared for the approach.
372.	J18	IRA
While being vectored, if crossing clearance has not been issued, v	• •	e becomes imminent and an approach y the pilot?
A) Turn outbound on the final ap	proach course, execute a pro	cedure turn, and inform ATC.
B) Turn inbound and execute the clearance has not been received		at the outer marker if approach
C) Maintain the last assigned he	ading and query ATC.	
373.	J18	IRA
Which is true regarding STAR's?		
A) STAR's are used to separate	IFR and VFR traffic.	
B) STAR's are established to sim	nplify clearance delivery proce	edures.
C) STAR's are used at certain ai	rports to decrease traffic cong	gestion.
374. H8	332	IRA
(Refer to figure 30.) During the a MOURN), a left crosswind is end referenced relative to the wing-tip	countered. Where should the b	pearing pointer of an RMI be
A) Behind the right wing-tip refer	ence point.	
B) On the right wing-tip reference	e point.	

C) Behind the left wing-tip refere	ence point.	
375.	J01	IRA
(Refer to figure 73.) Which sequ will you receive on the ILS RWY A) Blue - alternate dots and das B) Amber - alternate dots and da	6 approach procedure to the hes; amber - dashes.	ator lights, and their respective codes, MAP?
C) Blue - dashes; amber - altern	ate dots and dashes.	
376. H	842	IRA
(Refer to figure 34.) At which alt of the HOT VOR/DME to be unr		ould you expect the navigational signal
A) 3,000 feet at APINE intersect	tion.	
B) 2,600 feet at MARKI intersec C) 4,000 feet at ELMMO interse		
377.	J01	IRA
(Refer to figure 76.) Which indic receivers when the aircraft is loo Airport? A) A. B) B. C) C.	•	accuracy check of both VOR eckpoint at the Helena Regional
378.	J35	IRA
(Refer to figure 87.) Which VHF FSS in the Lake Charles area? A) 122.1, 126.4. B) 123.6, 122.65. C) 122.2, 122.3.	frequencies, other than 121.5	5, can be used to receive De Ridder
379.	J42	IRA
(Refer to figure 120.) The symbol represents a minimum safe sect A) Denver VORTAC. B) Gandi outer marker. C) Denver/Stapleton Internation	or altitude within 25 NM of	RWY 35R procedure at DEN
380.	J42	IRA

(Refer to figure 80.) How many in Logan) approach procedure? A) Three. B) Four. C) Five.	itial approach fixes serve the	VOR/DME RWY 27R (Billings
381.	J42	IRA
(Refer to figures 36A.) Under whi DME RNAV RWY 33 approach b		ed approach procedure for the VOR/
A) Immediately upon reaching the	e 5.0 DME from the FAF.	
B) When passage of the MAP wa	y point is shown on the ambi	guity indicator.
C) After the MDA is reached and	1.8 DME fix from the MAP w	ay point.
382.	J42	IRA
(Refer to figures 36A.) What is the RWY 33 approach procedure incl A) One way point. B) Two way points. C) Three way points.		oints required for the complete RNAV approach procedure?
383.	J41	IRA
(Refer to figures 35 and 35A.) At	which point does the BUJ.BL	JJ3 arrival begin?
A) At the TXK VORTAC.		
B) At BOGAR intersection.		
C) At the BUJ VORTAC.		
384.	J15	IRA
Which sources of aeronautical infairport conditions (e.g., runway cl		- -
A) Aeronautical Information Manu (NOTAM's).	ual, aeronautical charts, and l	Distant (D) Notice to Airmen
B) Airport Facility Directory, FDC	NOTAM's, and Local (L) NO	TAM's.
C) Airport Facility Directory, Dista	nnt (D) NOTAM's, and Local (L) NOTAM's.
385.	J15	IRA
The most current en route and de be obtained from A) the ATIS broadcast.	estination flight information fo	r planning an instrument flight should
B) the FSS.		

C) Notices to Airmen (Class II).		
386. How can a pilot determine if a G for IFR enroute and IFR approa A) Flight manual supplement. B) GPS operator's manual. C) Aircraft owner's handbook.	• •	IRA em (GPS) installed in an aircraft is approved
387. (Refer to figure 29.) What are th Eugene/Mahlon Sweet Field? A) 0800 2300. B) 0600 0000. C) 0700 0100.	J34 ne hours of operation (I	IRA ocal standard time) of the control tower at
388. (Refer to figure 72.) How many International Airport? A) One. B) Three. C) Four.	J34 precision approach pro	IRA ocedures are published for Bradley
389. In which publication can the VO A) Airman's Information Manual B) En Route Low Altitude Chart C) Airport/Facility Directory.		IRA ckpoint(s) for a particular airport be found?
as pilot in command under IFR, A) completes the required 6 hou given by an FAA-designated ex	unless the pilot urs and six approaches aminer. ency check in the cated	IRA rument time in 1 year or more, cannot serve r, followed by an instrument proficiency check gory of aircraft involved, given by an approve

C) passes an instrument proficiency check in the category of aircraft involved, followed by 6 hours and six instrument approaches, 3 of those hours in the category of aircraft involved.

391.	B10	IRA
When a pilot elects to proceed t at the alternate?	to the selected alternate airport	, which minimums apply for landing
A) 600 1 if the airport has an ILS	S.	
B) Ceiling 200 feet above the pu	ublished minimum; visibility 2 m	iles.
C) The landing minimums for th	e approach to be used.	
392.	B10	IRA
When is an IFR flight plan requi	red?	
A) When less than VFR conditional airspace.	ons exist in either Class E or Class	ass G airspace and in Class A
B) In all Class E airspace when zone airspace.	conditions are below VFR, in C	class A airspace, and in defense
C) In Class E airspace when IM	C exists or in Class A airspace	•
393.	B10	IRA
•	pach prescribed in 14 CFR part	hat the first airport of intended 97. The weather forecast for one al is 3000' scattered with 5 miles
To meet the fuel requirements f landing,	or this flight, you must be able t	to fly to the first airport of intended
A) and then fly for 45 minutes a	t normal cruising speed.	
B) then to the alternate airport,	and then for 45 minutes at norn	nal cruising speed.
C) then to the alternate airport,	and then for 30 minutes at norn	nal cruising speed.
394.	B08	IRA
When are you required to have A) Flight through an MOA. B) Flight into an ADIZ. C) Flight into class A airspace.	an instrument rating for flight in	VMC?
395.	B11	IRA
If the aircraft's transponder fails	during flight within Class B airs	space,
A) the pilot should immediately	request clearance to depart the	Class B airspace.
B) ATC may authorize deviation the airport of ultimate destination	·	nent to allow aircraft to continue to
C) aircraft must immediately de-	scend below 1,200 feet AGL ar	nd proceed to destination.

396.	B11	IRA	
What minimum navigation	equipment is required	I for IFR flight?	
A) VOR/LOC receiver, tran	sponder, and DME.		
B) VOR receiver and, if in reporting.	ARTS III environment	, a coded transponder equipped for altitude	
C) Navigation equipment a	ppropriate to the grou	und facilities to be used.	
397.	B11	IRA	
Where is DME required un			
A) At or above 24,000 feet	MSL if VOR navigation	onal equipment is required.	
B) In positive control airspa	ace.		
C) Above 18,000 feet MSL			
398.	G10	IRA	
Which publication covers t responsibilities for pilots? A) FAR Part 61.	he procedures require	ed for aircraft accident and incident reporting	
B) FAR Part 91.			
C) NTSB Part 830.			
399.	159	IRA	
(Refer to figure 4.) What is weather depiction chart?	the meaning of a bra	cket (]) plotted to the right of the station circle on	а
A) The station represents t	he en route condition	s within a 50 mile radius.	
B) The station is an autom	ated observation loca	tion.	
C) The station gives local of	overview of flying con	ditions for a six hour period.	
400.	l22	IRA	
Under which condition will	pressure altitude be	equal to true altitude?	
A) When the atmospheric	pressure is 29.92 inch	nes Hg.	
B) When standard atmosp	heric conditions exist.		
C) When indicated altitude			
401.	l31	IRA	
Which is true regarding the weather conditions?	use of airborne wea	ther-avoidance radar for the recognition of certain	ì
A) The radarscope provide	s no assurance of av	oiding instrument weather conditions.	
B) The avoidance of hail is	assured when flying	between and just clear of the most intense echoe	:S

C) The clear area betw maintained when flying		eates that visual sighting of storms can be
402.	H818	IRA
While recovering from level pitch attitude is re	_	without the aid of the attitude indicator, approximate
A) airspeed and altime	ter stop their movement a	and the VSI reverses its trend.
B) airspeed arrives at o	cruising speed, the altime	ter reverses its trend, and the vertical speed stops
C) altimeter and vertica	al speed reverse their tren	nd and the airspeed stops its movement.
403.	H816	IRA
On what headings will bank of approximately		ead most accurately during a level 360° turn, with a
A) 135° through 225°.		
B) 90° and 270°.		
C) 180° and 0°.		
404.	J26	IRA
What is the procedure higher on a direct flight	_	hen assigned an IFR altitude of 18,000 feet or
A) Set the altimeter to 2	29.92 inches Hg before ta	akeoff.
B) Set the altimeter to the 29.92 inches Hg.	the current altimeter settii	ng until reaching the assigned altitude, then set to
C) Set the altimeter to 18,000 feet.	the current reported settir	ng for climb-out and 29.92 inches Hg upon reaching
405.	J17	IRA
(Refer to figure 117.) Y	ou receive this ATC clear	rance:
CLEARED TO THE A		HWEST ON THE TWO THREE ZERO DEGREE
At station passage you enter the holding patte		gure 117. What is the recommended procedure to
A) Direct only.		
B) Teardrop only.		
C) Parallel only.		
406.	H830	IRA
` •	•	nown for aircraft 8 is maintained, which ADF 15° magnetic bearing TO the station?

A) 3.			
B) 4.			
C) 1.			
407.	J01	IRA	
What is the meaning of seconds from a VORTA	•	ion received only once approximately every 30	
A) The VOR and DME of	components are operative	> .	
B) VOR and DME comp	onents are both operative	e, but voice identification is out of service.	
C) The DME componen	t is operative and the VO	R component is inoperative.	
408.	J01	IRA	
What is a difference bet	ween an SDF and an LD	A facility?	
A) The SDF course widt	th is either 6° or 12° while	the LDA course width is approximately 5°.	
B) The SDF course has	no glide slope guidance	while the LDA does.	
C) The SDF has no mar	ker beacons while the LD	OA has at least an OM.	
409.	A24	IRA	
What limitation is impos hold an instrument pilot		d commercial airplane pilot if that person does no	ot
A) The carrying of passe radius of 50 nautical mil		e on cross-country flights at night is limited to a	
B) The carrying of passe but not limited for day fli	_	country flights is limited to 50 NM for night flights	,
C) The carrying of pass of passengers for hire a	•	country flights is limited to 50 NM and the carryin	ıg
410.	B10	IRA	
Which data must be rec operational check for IF	_	r other appropriate log by a pilot making a VOR	
A) VOR name or identifi	cation, date of check, am	ount of bearing error, and signature.	
B) Place of operational	check, amount of bearing	error, date of check, and signature.	
C) Date of check, VOR error.	name or identification, pla	ace of operational check, and amount of bearing	
411.	I 60	IRA	
(Refer to figure 8.) Wha Radar Summary Chart?		depicted in the area indicated by arrow A on the	
A) Moderate to strong e	choes; echo tops 30,000	feet MSL; line movement toward the northwest.	

•	rate echoes; average echo base nowers with thunder.	es 30,000 feet MSL; cell movement toward the	e
C) Strong to very	strong echoes; echo tops 30,00	0 feet MSL; thunderstorms and rain showers	'-
412.	160	IRA	
For most effective	e use of the Radar Summary Ch	art during preflight planning, a pilot should	
•	art to determine more accurate retween reporting stations.	neasurements of freezing levels, cloud cover	, and
B) compare it with precipitation.	n the charts, reports, and forecas	sts of a three-dimensional picture of clouds a	nd
•	t as the only source of informati reporting stations.	on regarding storms and hazardous conditior	าร
413.	l28	IRA	
Which is a charac	cteristic of low level wind shear a	s it relates to frontal activity?	
A) With a warm fr	ont, the most critical period is be	efore the front passes the airport.	
B) With a cold fro	nt, the most critical period is just	before the front passes the airport.	
C) Turbulence wil	I always exist in wind shear con	ditions.	
414.	H807	IRA	
What is the relation turn?	onship between centrifugal force	and the horizontal lift component in a coordi	nated
A) Horizontal lift e	exceeds centrifugal force.		
B) Horizontal lift a	and centrifugal force are equal.		
C) Centrifugal for	ce exceeds horizontal lift.		
415.	H1227	IRA	
What force cause	s an airplane to turn?		
A) Rudder pressu	re or force around the vertical a	xis.	
B) Vertical lift con	nponent.		
C) Horizontal lift o	component.		
416.	H807	IRA	
Conditions that de	etermine the pitch attitude requir	ed to maintain level flight are	
A) flightpath, wind	l velocity, and angle of attack.		
B) airspeed, air d	ensity, wing design, and angle o	f attack.	
C) relative wind, p	pressure altitude, and vertical lift	component.	
417.	H808	IRA	

If the outside air temperaltitude, the true airspe	_	flight at constant power and at a constant indicated
A) decrease and true	altitude will increase.	
B) increase and true a	Iltitude will decrease.	
C) increase and true a	altitude will increase.	
418.	H1264	IRA
Under which condition	s is hydroplaning most like	ly to occur?
•	ed for directional control ins nding roll on a wet runway.	tead of allowing the nosewheel to contact the
B) During conditions of	of standing water, slush, hig	h speed, and smooth runway texture.
C) During a landing or begins to build ahead	•	ke application is delayed until a wedge of water
419.	H837	IRA
When tracking in bour drift corrections?	nd on the localizer, which o	f the following is the proper procedure regarding
completion of the appr	roach should be accomplisi	ned before reaching the outer marker and ned with heading corrections no greater than 2°. The state of the outer marker.
•		nents after passing the outer marker.
o, bill corrections on	odia so mado in 10 moron	ionic and paceing the outer manter.
420.	J27	IRA
When landing behind	a large jet aircraft, at which	point on the runway should you plan to land?
A) If any crosswind, la	nd on the windward side of	the runway and prior to the jet's touchdown point.
B) At least 1,000 feet	beyond the jet's touchdown	point.
C) Beyond the jet's too	uchdown point.	
421.	J27	IRA
Wake turbulence is ne	ear maximum behind a jet ti	ansport just after takeoff because
A) the engines are at i	maximum thrust output at s	low airspeed.
B) the gear and flap co	onfiguration increases the t	urbulence to maximum.
C) of the high angle of	fattack and high gross weigh	ght.
422.	H1272	IRA
Which statement is co	rrect regarding the use of o	cockpit lighting for night flight?
A) Reducing the lighting	ng intensity to a minimum le	evel will eliminate blind spots.
B) The use of regular	white light, such as a flashl	ight, will impair night adaptation.
C) Coloration shown of	on maps is least affected by	the use of direct red lighting.

423.	J31	IRA		
What action should be ta	aken if hyperventilation	is suspected?		
A) Breathe at a slower rate by taking very deep breaths.				
B) Consciously breathe	at a slower rate than no	rmal.		
C) Consciously force you	urself to take deep brea	ths and breathe at a faster rate than normal.		
424.	H802	IRA		
How can an instrument p	oilot best overcome spa	tial disorientation?		
A) Use a very rapid cros	s check.			
B) Properly interpret the	_	act accordingly.		
C) Avoid banking in exce	ess of 30°.			
425.	J31	IRA		
Which technique should flight?	a pilot use to scan for t	raffic to the right and left during straight and level		
A) Systematically focus	on different segments o	f the sky for short intervals.		
B) Concentrate on relative	ve movement detected	in the peripheral vision area.		
C) Continuous sweeping	of the windshield from	right to left.		
426.	J42	IRA		
	CREAK, you are cleared	ne CREAK intersection via the BTG 054° radial at ed for the LOC/DME RWY 21 approach to PDX. egin prior to		
A) intercepting the glide	slope.			
B) completion of the pro-	cedure turn, and establi	shed on the localizer.		
C) CREAK outbound.				
427.	B10	IRA		
If during an ILS approach DH, the pilot is	h in IFR conditions, the	approach lights are not visible upon arrival at the		
A) required to immediate	ely execute the missed a	approach procedure.		
B) permitted to continue	the approach and desc	end to the localizer MDA.		
C) permitted to continue	the approach to the ap	proach threshold of the ILS runway.		
428.	J18	IRA		
Prior to conducting 'time	d approaches from a ho	olding fix,' which one of the following is required?		
A) The time required to f reliable means.	ly from the primary facil	lity to the field boundary must be determined by a		

B) The airport where	the approach is to be conducted	cted must have a control tower in operation.
C) The pilot must ha holding fix.	ive established two way comn	nunications with the tower before departing the
429.	H816	IRA
When airspeed is in	creased in a turn, what must b	pe done to maintain a constant altitude?
A) Decrease the and	gle of bank.	
B) Increase the ang	le of bank and/or decrease the	e angle of attack.
C) Decrease the ang	gle of attack.	
430.	H816	IRA
What is the initial pr	imary bank instrument when e	establishing a level standard-rate turn?
A) Turn coordinator.		
B) Heading indicato	r.	
C) Attitude indicator		
431.	H815	IRA
To level off from a d altitude by approxim	_	nding airspeed, the pilot should lead the desired
A) 20 feet.		
B) 50 feet.		
C) 60 feet.		
432.	H815	IRA
To enter a constant pilot should	airspeed descent from level c	ruising flight, and maintain cruising airspeed, the
	ch attitude to a descent using in the cruising airspeed.	the attitude indicator as a reference, then adjus-
B) first reduce powe specific rate on the '		he attitude indicator as a reference to establish
C) simultaneously remaintain the cruising		tch using the attitude indicator as a reference to
433.	H826	IRA
(Refer to figure 149. instruments has ma	•	one system which transmits information to the
A) Level turn to the	right.	
B) Level turn to the	left.	
C) Straight and leve	l flight.	

434.	H816	IRA
Which instruments are in a level turn?	considered to be suppo	rting instruments for pitch during change of airspeed
A) Airspeed indicator a	and VSI.	
B) Altimeter and attitude	de indicator.	
C) Attitude indicator a	nd VSI.	
435.	H814	IRA
Which instrument provievel flight?	rides the most pertinent i	nformation (primary) for pitch control in straight-and-
A) Attitude indicator.		
B) Airspeed indicator.		
C) Altimeter.		
436.	H813	IRA
Which instruments sho assigned altitude?	ould be used to make a p	oitch correction when you have deviated from your
A) Altimeter and VSI.		
B) Manifold pressure (gauge and VSI.	
C) Attitude indicator, a	ultimeter, and VSI.	
437.	H815	IRA
The glide slope and lo initially?	calizer are centered, but	the airspeed is too fast. Which should be adjusted
A) Pitch and power.		
B) Power only.		
C) Pitch only.		
438.	H818	IRA
Which is the correct se flight attitude?	equence for recovery from	m a spiraling, nose low, increasing airspeed, unusual
A) Increase pitch attitu	ude, reduce power, and le	evel wings.
B) Reduce power, cor	rect the bank attitude, an	d raise the nose to a level attitude.
C) Reduce power, rais	se the nose to level attitude	de, and correct the bank attitude.
439.	H810	IRA
		titude indicator, what attitude indication should you to straight-and-level coordinated flight?

A) A straight-and-leve	el coordinated flight indicatio	n.	
B) A nose high indica	tion relative to level flight.		
C) The miniature airc	raft shows a turn in the direc	tion opposite the skid.	
440.	H812	IRA	
What pretakeoff cheo	k should be made of a vacu	um driven heading indicator in preparation for an	
A) After 5 minutes, se alignment after taxi tu	_	tic heading of the aircraft and check for proper	
B) After 5 minutes, ch the aircraft.	neck that the heading indicat	or card aligns itself with the magnetic heading of	
C) Determine that the operation.	e heading indicator does not	precess more than 2° in 5 minutes of ground	
441.	H933	IRA	
	ndication on the magnetic co heading in the Northern Hen	mpass as you roll into a standard-rate turn to the nisphere?	;
•	initially show a turn in the op e actual heading of the aircra	posite direction, then turn to a northerly indicatio	n
B) The compass will actual heading of the		g for a short time, then gradually catch up to the	
C) The compass will smooth.	indicate the approximate cor	rect magnetic heading if the roll into the turn is	
442.	H810	IRA	
What indications are A) Rate of roll and ra	displayed by the miniature a te of turn.	ircraft of a turn coordinator?	
•	f bank angle and pitch attitud	le.	
C) Indirect indication	of bank angle and pitch attite	ude.	
443.	H814	IRA	
(Refer to figure 144.) in a coordinated stan	_	placement should be made so that '2' would resu	ılt
A) Increase left rudde	er and increase rate of turn.		
B) Increase left rudde	er and decrease rate of turn.		
C) Decrease left rudo	ler and decrease angle of ba	ınk.	
444.	H810	IRA	
If a half standard-rate heading of 090° to a		ch time would be required to turn clockwise from	а

A) 30 seconds.			
B) 1 minute.			
C) 1 minute 30 seconds.			
445.	H814	IRA	
	ruments while taxiing and 00 feet per minute. In this	find that the vertical speed indicator (VSI) case, you	
A) must return to the par repairman.	king area and have the ir	nstrument corrected by an authorized instrumen	ıt
B) may take off and use	100 feet descent as the z	zero indication.	
C) may not take off until	the instrument is corrected	ed by either the pilot or a mechanic.	
446.	J33	IRA	
What does the ATC term	n 'Radar Contact' signify?		
A) Your aircraft has beer with this radar facility.	n identified and you will re	eceive separation from all aircraft while in conta	ct
B) Your aircraft has beer until radar identification i		lisplay and radar flight following will be provided	1
C) You will be given traff contact has been lost.	ic advisories until advised	d the service has been terminated or that radar	
447.	H931	IRA	
(Refer to figure 38.) What if the outside air tempera		naintain the filed TAS at the flight planned altitud	de
A) 129 KCAS.			
B) 133 KCAS.			
C) 139 KCAS.			
448.	J14	IRA	
-	•	t restrictions and aircraft are within 1,000 feet of mb and descend at a rate of between	f
A) 500 feet per minute a	nd 1,000 feet per minute.		
B) 500 feet per minute a	nd 1,500 feet per minute.		
C) 1000 feet per minute	and 2,000 feet per minute	Э.	
449.	J17	IRA	
(Refer to figure 113.) Yo	u receive this ATC cleara	ince:	
"CLEARED TO THE A	BC VORTAC. HOLD WE	ST ON THE TWO SEVEN ZERO RADIAL'	
What is the recommende	ed procedure to enter the	holding pattern?	

A) Parallel only.		
B) Direct only.		
C) Teardrop only.		
450.	J17	IRA
(Refer to figure 113.) You receive	e this ATC clearance:	
CLEARED TO THE XYZ VOR' TURNS'	TAC. HOLD NORTH ON THE	E THREE SIX ZERO RADIAL, LEFT
What is the recommended proce	dure to enter the holding patt	ern.
A) Parallel only.		
3) Direct only. C) Teardrop only.		
of real alop only.		
451.	J17	IRA
(Refer to figure 117.) You receive		
CLEARED TO THE XYZ NDB. BEARING FROM THE NDB. LEF		IE ZERO FOUR ZERO DEGREE
At station passage you note the interminate interminate in the holding pattern?	ndications in figure 117. Wha	at is the recommended procedure to
A) Direct only.		
B) Teardrop only.		
C) Parallel only.		
452.	J17	IRA
(Refer to figure 114.) A pilot rece	ives this ATC clearance:	
CLEARED TO THE ABC VOR		
What is the recommended proce	dure to enter the holding patt	ern?
A) Parallel or teardrop.		
3) Parallel only.		
C) Direct only.		
453.	J17	IRA
To ensure proper airspace protectabove 14,000 feet for civil turboje		n, what is the maximum airspeed
A) 230 knots.		
3) 265 knots.		
C) 200 knots.		
454.	J17	IRA

correctly complies with the	ATC clearance below ONE FIVE DME FIX O	E fix on a heading of 350°. Which holding pattern and what is the recommended entry procedure? N THE TWO SIX EIGHT RADIAL OF THE ABC
455.	J17	IRA
		forming a holding pattern at a VOR?
• .	•	eam the VOR, whichever occurs later.
B) Timing for the inbound I		
,		be made on the inbound leg.
Of Adjustifierts in tilling o	r each pattern should i	be made on the inbound leg.
456.	J17	IRA
•		leg outbound in a nonstandard holding pattern?
A) Abeam the holding fix, o	•	
B) When the wings are lev	•	
C) When over or abeam th	e notaing fix, whicheve	er occurs later.
457.	H948	IRA
(Refer to FD excerpt below the time to be entered in b		try closest to the flight planned altitude.) Determine m GJT to DRO.
Route of flight	Figure 21	
Flight log & MAG VAR	Figure 22	
En route chart	Figure 24	
FT	12,000	18,000
FNM	2408-05	2208-21
A) 1 hour 08 minutes.		
B) 1 hour 03 minutes.		
C) 58 minutes.		
458.	H948	IRA
crossed over CPN VORTA		at time should you arrive at DBS VORTAC if you IVID intersection at 0854?
A) 0939. B) 0943.		
•		
C) 0947.		

459.	J15	IRA
	nat are the compulsory reporting ect route not on established airw	g points when using VOR/DME or vays?
A) Fixes selected to define the	route.	
B) There are no compulsory re	eporting points unless advised b	by ATC.
C) At the changeover points.		
460.	J15	IRA
When may a pilot file a compo		
A) When requested or advised	•	
B) Any time a portion of the flig		
C) Any time a landing is plann	ed at an intermediate airport.	
461.	J15	IRA
(Refer to figure 1.) Which equi aircraft type on the flight plan f	pment determines the code to lorm?	pe entered in block 3 as a suffix to
A) DME, ADF, and airborne ra		
B) DME, transponder, and AD		
C) DME, transponder, and RN	AV.	
462.	J01	IRA
Which distance is displayed by	the DME indicator?	
A) Slant range distance in NM		
B) Slant range distance in SM		
C) Line of sight direct distance	from aircraft to VORTAC in SN	Л.
400	10.4	ID A
463.	J01	IRA
and displayed distance?	r have the greatest error betwe	en ground distance to the VORTAC
A) High altitudes far from the \	ORTAC.	
B) High altitudes close to the \	ORTAC.	
C) Low altitudes far from the V	ORTAC.	
464.	H837	IRA
(Refer to figures 60A and 61.) and the localizer course?	What is your position relative to	the PLATS intersection, glide slope,
A) Past PLATS, below the glid	e slope, and right of the localize	er course.
B) Approaching PLATS, above	e the glide slope, and left of the	localizer course.
C) Past PLATS, above the glid	de slope, and right of the localiz	er course.

465.	J01	IRA	
What is the difference	e between a Localizer Type	Directional Aid (LDA) and the ILS localizer?	
	gned with the runway.	· ·	
•	ourse width of 6° or 12°, wh	ile an ILS uses only 5°.	
•		e facility and has no glide slope.	
466.	H831	IRA	
		station passage when using VOR?	
,		and CDI as the station is approached.	
•	deflection of the CDI.		
C) The first complete	reversal of the TO FROM in	idicator.	
467.	J35	IRA	
(Refer to figure 24.) A	<u>-</u>	changeover be made from JNC VOR to MANC.	Α
A) 36 NM south of JN	IC.		
B) 52 NM south of JN	IC.		
C) 74 NM south of JN	NC.		
468.	J01	IRA	
How should the pilot checkpoint on the air		when the aircraft is located on the designated	
A) Set the OBS on 18	80° plus or minus 4°; the CD	I should center with a FROM indication.	
B) Set the OBS on th with a FROM indicati		I must center within plus or minus 4° of that rac	dial
	eaded directly toward the Vo 4° of that radial with a TO inc	OR and the OBS set to 000°, the CDI should ce dication.	enter
469.	J15	IRA	
	ace are depicted on the En F		
	•	outes and special use airspace.	
•	se airspace, Class D and Cl	·	
•	ace, Class E, Class D, Class		
c) cp co.a. acc a op c	_, _, _, _, _, _, _, _, _, _, _, _, _, _	.,,	
470.	J35	IRA	
(Refer to figure 87.) \	Why is the localizer back cou	urse at Jefferson County rport depicted?	
A) The back course i	s not aligned with a runway.		
B) The back course h	nas a glide slope.		

C) The back course has an addit	ional navigation function.	
471.	J35	IRA
A) A published LDA localizer cou B) A published SDF localizer cou	ırse.	symbol at Jefferson County Airport?
C) A published ILS localizer cour	se, which has an additional r	navigation function.
472.	J35	IRA
(Refer to figure 91.) Where shou to JAC VOR/DME on V520?	ld you change VOR frequenc	ies when en route from DBS VORTAC
A) 35 NM from DBS VORTAC.		
B) 60 NM from DBS VORTAC.		
C) 60 NM from JAC VOR/DME.		
473.	J35	IRA
(Refer to figure 53.) What service navigation box for PRB VORTAC	•	H' symbol in the radio aids to
A) VOR with TACAN compatible	DME.	
B) Availability of HIWAS.		
C) En Route Flight Advisory Serv	vice available.	
474.	J35	IRA
(Refer to figure 24.) Proceeding : Denver Center. You should atter A) 133.425 MHz.	· · · · · · · · · · · · · · · · · · ·	y of Cortez VOR) contact is lost with n Denver Center on:
B) 122.1 MHz and receive on 10	8.4 MHz.	
C) 122.35 MHz.		
475.	J35	IRA
(Refer to figure 40.) For planning V16 from BGS VORTAC to ABI		st useable altitude for an IFR flight on
A) 17,000 feet MSL.		
B) 18,000 feet MSL.		
C) 6,500 feet MSL.		
476.	J35	IRA
(Refer to figures 22 and 24.) For between Grand Junction, Walker		uld be the highest MEA on V187 ta Co. Airport?

A) 12,000 feet.B) 15,000 feet.C) 16,000 feet.			
477. (Refer to figure 24.) Wh A) 10,900 feet MSL. B) 12,000 feet MSL. C) 13,700 feet MSL.	J35 nat is the MOCA between	IRA JNC and MANCA intersection on V187?	
478. (Refer to figure 55.) Un	H854 der which condition shoul aso Robles Municipal Airg	IRA d a missed approach procedure be initiated in	f the
	40 feet or reaching the 1 N	IM DME, whichever occurs first. Dach point and determine the visibility is less	than 1
479. (Refer to figure 73.) Wh landing on RWY 6 at B A) HIRL, REIL, and VA B) HIRL and VASI. C) ALSF2 and HIRL.	radley International?	IRA nvironment lighting is available for approach	and
	ch is inoperative. Under the DH and visibility?	IRA ey Approach Control advises you that the MM ese circumstances, what adjustments, if any	
481. (Refer to figure 73.) Wh A) 174 feet MSL. B) 200 feet AGL. C) 270 feet MSL.	J42 nat is the touchdown zone	IRA elevation for RWY 6?	

482.	J17	IRA
(Refer to figure 129.) What indi procedure turn at LABER?	cation should you	get when it is time to turn in bound while in the
A) 4 DME miles from LABER.		
B) 10 DME miles from the MAF	Ρ.	
C) 12 DME miles from LIT VOF	RTAC.	
483.	J42	IRA
(Refer to figure 121.) During th slope interception is	e ILS RWY 30R p	rocedure at DSM, the minimum altitude for glide
A) 2,365 feet MSL.		
B) 2,500 feet MSL.		
C) 3,000 feet MSL.		
484.	J42	IRA
(Refer to figure 49.) What is the	e usable runway le	ength for landing on runway 21 at PDX?
A) 7,000 feet.		
B) 7,900 feet.		
C) 5,957 feet.		
485.	J41	IRA
(Refer to figures 41 and 41A.) \Approach Control? (ACTON T	•	vould you anticipate using to contact Regional
A) 119.05.		
B) 124.15.		
C) 125.8.		
486.	J34	IRA
•		from Abilene, which frequencies should you rol tower, and ground control respectively?
A) 119.05; 126.55; 121.65.		
B) 119.05; 124.15; 121.8.		
C) 125.8; 124.15; 121.8.		
487.	J42	IRA
(Refer to figures 42A.) Which n when using the localizer freque	~	ation and services would be available to the pilot
A) Localizer and glide slope, D	ME, TACAN with I	no voice capability.
B) Localizer information only, A	ATIS and DME are	available.

C) Localizer and glide slope, D	ME, and no voice capability.	
488.	H862	IRA
What is a way point when used	d for an IFR flight?	
A) A predetermined geographic approach.	cal position used for an RNAV r	oute or an RNAV instrument
B) A reporting point defined by	the intersection of two VOR rad	dials.
C) A location on a victor airway	which can only be identified by	/ VOR and DME signals.
489.	A20	IRA
	s for hire on a night VFR flight in port. You are required to posse	n a single engine airplane within a 25 ss at least which rating(s)?
A) A Commercial Pilot Certifica	ate with a single engine land rati	ing.
B) A Commercial Pilot Certifica	ate with a single engine and inst	rument (airplane) rating.
C) A Private Pilot Certificate wi	ith a single engine land and inst	rument airplane rating.
490.	A20	IRA
A certificated commercial pilot required to have at least	who carries passengers for hire	e at night or in excess of 50 NM is
A) an associated type rating if	the airplane is of the multiengin	e class.
B) a First-Class Medical Certifi	cate.	
C) an instrument rating in the s	same category and class of airc	raft.
491.	B10	IRA
For aircraft other than helicopte Hartsfield) if the proposed ETA	•	red for an IFR flight to ATL (Atlanta
TAF KATL 121720Z 121818 20	0012KT 5SM HZ BKN030	
FM2000 3SM TSRA OVC0250	CB	
FM2200 33015G20KT P6SM E	3KN015 OVC040 BECMG 0608	i e
02008KT BKN 040 BECMG 10	012 00000KT P6SM CLR=	
A) Yes, because the ceiling co ETA.	uld fall below 2,000 feet within 2	2 hours before to 2 hours after the
B) No, because the ceiling and respectively.	I visibility are forecast to remain	at or above 1,000 feet and 3 miles,
C) No, because the ceiling and 1 hour before to 1 hour after the	-	r above 2,000 feet and 3 miles within
492.	B10	IRA

•	-	ded on an IFR flight plan as an alternate, if the and visibility at the ETA will	
	ت the IAF to landing under	-	
B) be at least 1,000 feet	_		
•		nd a landing under basic VFR conditions.	
,	, 11	G	
493.	B10	IRA	
When departing from an flight plan and receive a call (A) takeoff.	-	ontrolled airspace during IMC, you must file an IF	FR
B) entering IFR condition	ıS.		
C) entering Class E airsp	pace.		
494.	B08	IRA	
Which procedure is reco	mmended while climbing	to an assigned altitude on the airway?	
A) Climb on the centerlin conditions.	e of the airway except when	hen maneuvering to avoid other air traffic in VFR	
B) Climb slightly on the r	ight side of the airway wh	nen in VFR conditions.	
C) Climb far enough to the from the opposite direction	•	to avoid climbing or descending traffic coming	
495.	B07	IRA	
The use of certain portab	ole electronic devices is p	rohibited on aircraft that are being operated und	er
A) IFR.			
B) VFR.			
C) DVFR.			
496.	B11	IRA	
What is the maximum IFI passengers with supplen A) 12,500 feet.		an unpressurized aircraft without providing	
, .			
B) 14,000 feet.			
C) 15,000 feet.			
497.	l57	IRA	
When are severe weathe	er watch bulletins (WW) is	ssued?	
A) Every 12 hours as req	uired.		
B) Every 24 hours as req	uired.		
C) Unscheduled and issu	ued as required.		

498.	157	IRA
Which meteorological condition is	issued in the form of a SIG	GMET (WS)?
A) Widespread sand or dust storr	ns lowering visibility to less	than 3 miles.
B) Moderate icing.	O ,	
C) Sustained winds of 30 knots o	r greater at the surface	
o) Sustained winds of 50 knots o	greater at the surface.	
499.	l61	IRA
What flight planning information of	an a pilot derive from const	ant pressure charts?
A) Clear air turbulence and icing	conditions.	·
B) Levels of widespread cloud co		
C) Winds and temperatures aloft.	· ·	
,		
500.	157	IRA
Which weather forecast describes	-	erage of both severe and general
thunderstorms during the following	g 24 hours?	
A) Terminal Aerodrome Forecast		
B) Convective outlook.		
C) Radar Summary Chart.		
501.	126	IRA
The suffix 'nimbus', used in namir		
	-	
A) cloud with extensive vertical de	evelopinent.	
B) rain cloud.		
C) dark massive, towering cloud.		
502. H9	21	IRA
If severe turbulence is encountered design maneuvering speed because		e airplane should be slowed to the
A) maneuverability of the airplane		
B) amount of excess load that car		vill be decreased.
C) airplane will stall at a lower and		
e, an prante num etam at a retter an	gio oi allaon, girii g air ii on	Jacob IIIa. g.i. o. ca. c.y.
503.	120	IRA
A I A I A I A I A I A I A I A I A I A I		
A characteristic of the stratosphe	re is	
A characteristic of the stratospheral A) an overall decrease of tempera		itude.
•	ature with an increase in alt	

504.	K04		IRA	
	rough an abrupt wind shea agement would normally be			
A) Higher than neencountered, the	ormal power initially, follow n a decrease.	ed by a further in	crease as the wind shear	is
B) Lower than no encountered, the	ormal power initially, followen an increase.	ed by a further de	crease as the wind shea	r is
C) Higher than n increase.	ormal power initially, follow	ed by a decrease	e as the shear is encount	ered, then an
505.	J34		IRA	
(Refer to figure 6	8.) What is the VASI appro	each slope angle	for RWY 12 at Houma Te	errebonne?
A) 3.0°.				
B) 2.8°.				
C) 2.5°.				
506.	B10		IRA	
	o-way radio communicatio ot should continue	ns failure while o	perating on an IFR cleara	ance in VFR
A) by the route a	ssigned in the last ATC cle	arance received.		
,	er VFR and land as soon as	•	1 4 1	
C) the flight by th	ne most direct route to the f	ix specified in the	e last clearance.	
507.	J15		IRA	
(Refer to figure 5	6.) What aircraft equipmen	t code should be	entered in block 3 of the	flight plan?
A) U.				
B) A.				
C) I.				
508.	J01	IRA		
•	8.) Which indications on the cekpoint would meet the re			ood Field
VOR	TO/FROM	VOR	TO/FROM	DME
No. 1		No. 2		
A) 097° FROM 1				
B) 097° TO 096°				
C) 277° FROM 2	00 FKUIVI 3.3			

509.	J35	IRA

(Refer to figures 65 and 67.) What is the significance of the symbol at GRICE intersection?

- A) It signifies a localizer only approach is available at Harry P. Williams Memorial.
- B) The localizer has an additional navigation function.
- C) GRICE intersection also serves as the FAF for the ILS approach procedure to Harry P. Williams Memorial.

510. J10 IRA

Which aeronautical chart depicts Military Training Routes (MTR) above 1,500 feet?

- A) IFR Planning Chart.
- B) IFR Low Altitude En Route Chart.
- C) IFR High Altitude En Route Chart.