06/12/2012

Bank: (Instrument Rating)

Airman Knowledge Test Question Bank

The FAA computer-assisted testing system is supported by a series of supplement publications. These publications, available through several aviation publishers, include the graphics, legends, and maps that are needed to successfully respond to certain test items. Use the following URL to download a complete list of associated supplement books: <a href="http://www.faa.gov/training\_testing/testing/airmen/test\_questions/">http://www.faa.gov/training\_testing/testing/airmen/test\_questions/</a>

The Learning Statement Reference Guide for Airman Knowledge Testing contains listings of learning statements with their associated codes. It can be located at:

http://www.faa.gov/training\_testing/testing/airmen/media/LearningStatementReferenceGuide.pdf

What information does a Mach meter present?

- A) The ratio of aircraft true airspeed to the speed of sound.
- B) The ratio of aircraft indicated airspeed to the speed of sound.
- C) The ratio of aircraft equivalent airspeed, corrected for installation error, to the speed of sound.
- 2. PLT337 IRA

If while in level flight, it becomes necessary to use an alternate source of static pressure vented inside the airplane, which of the following variations in instrument indications should the pilot expect?

- A) The altimeter will read lower than normal, airspeed lower than normal, and the VSI will momentarily show a descent.
- B) The altimeter will read higher than normal, airspeed greater than normal, and the VSI will momentarily show a climb.
- C) The altimeter will read lower than normal, airspeed greater than normal, and the VSI will momentarily show a climb and then a descent.
- 3. PLT406 IRA

A pilot is making an ILS approach and is past the OM to a runway which has a VASI. What action should the pilot take if an electronic glide slope malfunction occurs and the pilot has the VASI in sight?

- A) The pilot should inform ATC of the malfunction and then descend immediately to the localizer DH and make a localizer approach.
- B) The pilot may continue the approach and use the VASI glide slope in place of the electronic glide slope.
- C) The pilot must request an LOC approach, and may descend below the VASI at the pilot's discretion.

## 4. PLT132 IRA

When an aircraft is accelerated, some attitude indicators will precess and incorrectly indicate a

- A) climb.
- B) descent.
- C) right turn.

## 5. PLT185 IRA

If a half standard-rate turn is maintained, how long will it take to turn 360°?

- A) 1 minute.
- B) 2 minutes.
- C) 4 minutes.

## 6. PLT298 IRA

What altitude may a pilot select upon receiving a VFR on Top clearance?

- A) DEANI intersection.
- B) White Cloud VORTAC.
- C) Baldwin Municipal Airport.

13. PLT083 IRA

(Refer to figure 49.) When conducting a missed approach from the LOC/DME RWY 21 approach at PDX, what is the Minimum Safe Altitude (MSA) while maneuvering between the runway and BTG VORTAC?

- A) 4,000 feet MSL.
- B) 3,400 feet MSL.

What is the third fundamental skill in attitude instrument flying?

A) Instrument cross-check.

B) Power control.

**IRA** 

PLT382

29.

**IRA** 

**PLT495** 

A) A cumulus cloud with sufficient moisture.

What are the requirements for the formation of a thunderstorm?

B) A cumulus cloud with sufficient moisture and an inverted lapse rate.C) Sufficient moisture, an unstable lapse rate, and a lifting action.

36.

irman Knowledge Test	Question Bank	
<ul><li>37.</li><li>Which weather ph</li><li>A) Lightning.</li><li>B) Heavy rain sho</li><li>C) Supercooled ra</li></ul>		IRA ?
A) It is an atmosp B) The Coriolis ph	PLT518 ant characteristic of wind shear? heric condition that is associated exclusively with zone numbers in both high and low level air masses is the heric condition that may be associated with a low level.	-
A) A procedure tu B) Teardrop-type	PLT292 sence of the procedure turn barb on the plan view orn is not authorized. procedure turn is authorized. procedure turn is authorized.	IRA n an approach chart indicate?
plan and clear of A) The controller B) The pilot must least 1 mile and b	clouds? must determine that the pilot can see the airport at the agree to the approach when given by ATC and the ce reasonably sure the pilot can remain clear of cloud	controller must have determined that the visibility was at
<ul><li>41.</li><li>What is the prima</li><li>A) Altimeter.</li><li>B) VSI.</li><li>C) Airspeed indica</li></ul>	PLT166 ry pitch instrument when establishing a constant altit	IRA ude standard-rate turn?
	PLT322 established airways at 17,000 feet MSL in the contignt should be no farther apart than	IRA guous U.S., (H) Class VORTAC facilities used to define a
would be displace A) 2 NM. B) 3 NM. C) 5 NM.	d approximately how far from the course centerline?	IRA dot deflection at 30 NM from the station. The aircraft
44.	PLT276	IRA

A) 4°.

What angular deviation from a VOR course centerline is represented by a full scale deflection of the CDI?

Airman Knowledge	Test Question Bank	
B) 5°.		
C) 10°.		
45	DI TOOO	JD A
45.	PLT322	IRA
_	<del>-</del>	ng should be considered as station passage?
,	ovement of the CDI as the airplane ent	
•	nt the TO FROM indicator becomes bla	
C) The lifst po	sitive, complete reversal of the TO FR	OM Indicator.
46.	PLT363	IRA
When using V on the	OT to make a VOR receiver check, the	e CDI should be centered and the OBS should indicate that the aircraft is
A) 090 radial.		
B) 180 radial.		
C) 360 radial.		
o) ooo radiai.		
47.	PLT300	IRA
Which is the r checkpoint?	maximum tolerance for the VOR indica	tion when the CDI is centered and the aircraft is directly over the airborne
A) Plus or min	nus 6° of the designated radial.	
B) Plus or min	nus 4° of the designated radial.	
C) Plus 6° or i	minus 4° of the designated radial.	
48.	PLT102	IRA
(Refer to figure	es 41 and 41A.) On which heading sho	ould you plan to depart CREEK intersection?
A) 010°.		
B) 040°.		
C) 350°.		
49.	PLT288	IRA
		cast weather information at your destination for the planned ETA?
A) Area Forec		
•	mary and Weather Depiction Charts.	
,	erodrome Forecast (TAF).	
50.	PLT061	IRA
Interpret this F	PIREP.	
MRB UA/OV N	MRB/TM1430/FL060/TPC182/SK BKN	BL/WX RA/TB MDT.
A) Ceiling 6,00	00 feet intermittently below moderate th	nundershowers; turbulence increasing westward.
B) FL 60,000,	intermittently below clouds; moderate	rain, turbulence increasing with the wind.
C) At 6,000 fe	et; between layers; moderate turbulend	ce; moderate rain.
51.	PLT173	IRA
Stability can b	e determined from which measuremen	t of the atmosphere?
A) Low level w		
B) Ambient lap		
C) Atmospheri		
F0	DI TC40	ID A
52.	PLT518	IRA

What effect will a cha	ange in wind direction have upon r	naintaining a 3° glide slope at a constant true airspeed?
A) When ground spe	ed decreases, rate of descent mus	t increase.
B) When ground spe	ed increases, rate of descent must	increase.
C) Rate of descent n	nust be constant to remain on the	glide slope.
53.	PLT052	IRA
(Refer to figure 77.)	At which minimum altitude should	you cross the STAKK intersection?
A) 6,500 feet MSL.		
B) 1,400 feet MSL.		
C) 10,200 feet MSL.		
c) :0,=00 :00t :::0=:		
54.	PLT507	IRA
		ptable accuracy check of both VOR receivers when the aircraft is
, ,	receiver checkpoint at the Helena	•
A) A.	•	
B) B.		
C) C.		
0) 0.		
55.	PLT058	IRA
area?	which var frequencies, other than	121.5, can be used to receive De Ridder FSS in the Lake Charles
A) 122.1, 126.4.		
B) 123.6, 122.65.		
,		
C) 122.2, 122.3.		
56.	PLT083	IRA
		ne ILS RWY 35R procedure at DEN represents a minimum safe sector
altitude within 25 NM		to the two core procedure at Bert reprocedite a minimum care coccer
A) Denver VORTAC.		
B) Gandi outer marke	er.	
C) Denver/Stapleton		
o, =o., op		
57.	PLT102	IRA
	and 35A.) At which point does the	
A) At the TXK VORT	· ·	Doc.Doco anival begin:
·		
B) At BOGAR interse		
C) At the BUJ VORT	AC.	
58.	PLT281	IRA
•	•	kpoint(s) for a particular airport be found?
A) Airman's Informati		
B) En Route Low Alti		
C) Airport/Facility Dir	ectory.	
59.	PLT442	IRA
An instrument rated p		ument time in 1 year or more, cannot serve as pilot in command under
IFR, unless the pilot		, , , , , , , , , , , , , , , , , , ,
<ul> <li>A) completes the requestion</li> <li>designated examiner</li> </ul>	•	followed by an instrument proficiency check given by an FAA-

- Airman Knowledge Test Question Bank B) passes an instrument proficiency check in the category of aircraft involved, given by an approved FAA examiner, instrument instructor, or FAA inspector. 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. 60. **PLT105 IRA** Which is true regarding the use of airborne weather-avoidance radar for the recognition of certain weather conditions?
  - A) The radarscope provides no assurance of avoiding instrument weather conditions.
  - B) The avoidance of hail is assured when flying between and just clear of the most intense echoes.
  - C) The clear area between intense echoes indicates that visual sighting of storms can be maintained when flying between the echoes.
  - **PLT118 IRA** 61.

(Refer to figure 143.) When the system is in the free gyro mode, depressing the clockwise manual heading drive button will rotate the remote indicating compass card to the

- A) right to eliminate left compass card error.
- B) right to eliminate right compass card error.
- C) left to eliminate left compass card error.
- 62. PLT224 **IRA**

When may a pilot file a composite flight plan?

- A) When requested or advised by ATC.
- B) Any time a portion of the flight will be VFR.
- C) Any time a landing is planned at an intermediate airport.
- 63. **IRA PLT361**

What is a difference between an SDF and an LDA facility?

- A) The SDF course width 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 marker beacons while the LDA has at least an OM.
- 64. **PLT353 IRA**

(Refer to figure 8.) What weather conditions are depicted in the area indicated by arrow A on the Radar Summary Chart?

- A) Moderate to strong echoes; echo tops 30,000 feet MSL; line movement toward the northwest.
- B) Weak to moderate echoes; average echo bases 30,000 feet MSL; cell movement toward the southeast; rain showers with thunder.
- C) Strong to very strong echoes; echo tops 30,000 feet MSL; thunderstorms and rain showers.
- 65. PLT242 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.
- **PLT185 IRA** 66.

What is the initial primary bank instrument when establishing a level standard-rate turn?

- A) Turn coordinator.
- B) Heading indicator.
- C) Attitude indicator.

67.	PLT445	IRA
You check the flight minute. In this case,	instruments while taxiing and find that the vertical speed you	indicator (VSI) indicates a descent of 100 feet per
A) may not proceed	under IFR until the instrument is corrected by an authoriz	ed instrument repairman.
B) may take off under	er IFR and use 100 feet descent as the zero indication.	
C) may take off and	proceed under IFR but only in VFR weather conditions.	
68.	PLT224	IRA
(Refer to figure 1.) V form?	Which equipment determines the code to be entered in bloom	ock 3 as a suffix to aircraft type on the flight plan
A) DME, ADF, and a	irborne radar.	
B) DME, transponde	r, and ADF.	
C) DME, transponde	r, and RNAV.	
69.	PLT322	IRA
Which of the following	g should be considered as station passage when using \	VOR?
,	of the TO FROM indicator and CDI as the station is app	roached.
,	deflection of the CDI.	
C) The first complete	e reversal of the TO FROM indicator.	
70.	PLT090	IRA
(Refer to figure 24.) V187?	At what point should a VOR changeover be made from J	NC VOR to MANCA intersection southbound on
A) 36 NM south of J	NC.	
B) 52 NM south of JI		
C) 74 NM south of J		
71.	PLT058	IRA
(Refer to figure 87.)	What is indicated by the localizer course symbol at Jeffer	rson County Airport?
A) A published LDA	localizer course.	
B) A published SDF	localizer course.	
C) A published ILS lo	ocalizer course, which has an additional navigation function	on.
72.	PLT058	IRA
(Refer to figure 53.)	What service is indicated by the inverse 'H' symbol in the	e radio aids to navigation box for PRB VORTAC?
A) VOR with TACAN	compatible DME.	
B) Availability of HIW	/AS.	
C) En Route Flight A	dvisory Service available.	
73.	PLT058	IRA
, -	Proceeding southbound on V187, (vicinity of Cortez VOR) h contact with Denver Center on:	) contact is lost with Denver Center. You should
A) 133.425 MHz.		
· ·	eceive on 108.4 MHz.	
C) 122.35 MHz.		
74.	PLT083	IRA
	What is the touchdown zone elevation for RWY 6?	

Airman Knowledge Test Question Bank