01/31/2011

Bank: (Light Sport Pilot)

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: http://www.faa.gov/training_testing/testing/airmen/test_questions/

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

(Refer to figure 68.) The positive limit load factor is represented by the

- A) vertical dashed line from E to F.
- B) vertical solid line from D to G.
- C) horizontal dashed line from C to point E.

2. PLT241 LSP

What is the relationship of lift, drag, thrust, and weight when the airplane is in straight-and-level flight?

- A) Lift equals weight and thrust equals drag.
- B) Lift, drag, and weight equal thrust.
- C) Lift and weight equal thrust and drag.

3. PLT041 LSP

(Refer to figure 24.) Determine the pressure altitude at an airport that is 1,386 feet MSL with an altimeter setting of 29.97.

- A) 1,341 feet MSL.
- B) 1,451 feet MSL.
- C) 1,562 feet MSL.

4. PLT132 LSP

What does the red line on an airspeed indicator represent?

- A) Maneuvering speed.
- B) Turbulent or rough-air speed.
- C) Never-exceed speed.

5. PLT023 LSP

Under what condition is indicated altitude the same as true altitude?

- A) If the altimeter has no mechanical error.
- B) When at sea level under standard conditions.
- C) When at 18,000 feet MSL with the altimeter set at 29.92.

6. PLT023 LSP

What is pressure altitude?

- A) The indicated altitude corrected for position and installation error.
- B) The altitude indicated when the barometric pressure scale is set to 29.92.
- C) The indicated altitude corrected for nonstandard temperature and pressure.

Filling the fuel tanks after the last flight of the day is considered a good operating procedure because this will

- C) prevent moisture condensation by eliminating airspace in the tanks.

8. PLT253 **LSP**

To properly purge water from the fuel system of an aircraft equipped with fuel tank sumps and a fuel strainer quick drain, it is necessary to drain fuel from the

- A) fuel strainer drain.
- B) lowest point in the fuel system.
- C) fuel strainer drain and the fuel tank sumps.

9. **PLT337** LSP

The pitot system provides impact pressure for which instrument?

- A) Altimeter.
- B) Vertical-speed indicator.
- C) Airspeed indicator.

10. **PLT190** LSP

Which condition is most favorable to the development of carburetor icing?

- A) Any temperature below freezing and a relative humidity of less than 50 percent.
- B) Temperature between 32 and 50 °F and low humidity.
- C) Temperature between 20 and 70 °F and high humidity.

LSP 11. **PLT190**

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12. PLT253 **LSP**

On aircraft equipped with fuel pumps, when is the auxiliary electric driven pump used?

- A) All the time to aid the engine-driven fuel pump.
- B) In the event engine-driven fuel pump fails.
- C) Constantly except in starting the engine.

LSP 13. **PLT478**

One purpose of the dual ignition system on an aircraft engine is to provide for

- A) improved engine performance.
- B) uniform heat distribution.
- C) balanced cylinder head pressure.

LSP 14. **PLT115**

If a pilot suspects that the engine (with a fixed-pitch propeller) is detonating during climb-out after takeoff, the initial corrective action to take would be to

- A) lean the mixture.
- B) lower the nose slightly to increase airspeed.
- C) apply carburetor heat.

15.	PLT478	LSP
The uncontrolled firing	of the fuel/air charge in adv	vance of normal spark ignition is known as
A) combustion.		
B) pre-ignition.		
C) detonation.		
-,		
16.	PLT112	LSP
		ilwinds, which aileron position should be used?
A) Neutral.		······································
•	side from which the wind i	s blowing
,	de from which the wind is b	-
of Alleron up on the 3r	de nom which the wind is b	lowing.
17.	PLT064	LSP
		rmation about the parachute jumping and glider operations at Silverwood
A) notes on the border	of the chart	
B) the Airport/Facility D		
,	en (NOTAM) publication.	
C) the Notices to Airnie	en (NOTAIVI) publication.	
18.	PLT509	LSP
		turbulence on a landing runway for the longest period of time?
•	<u> </u>	turbulence on a landing runway for the longest period of time:
A) Light quartering hea Direct tailwind	idwirid.	
B) Direct tailwind.	المراجعة	
C) Light quartering tails	wind.	
19.	PLT163	LSP
		space less than 10,000 feet mean sea level (MSL) is
A) 2,000 feet horizonta	•	pace less than 10,000 leet mean sea level (MSL) is
,	II.	
B) 3 statute miles.		
C) 3 nautical miles.		
20	DI TACA	LCD
20.	PLT161	LSP
·	·	er is classified as Class D airspace only
,	visibility is below 3 statute	
•	d control tower is in operation	
C) when the associated	d Flight Service Station is in	ı operation.
21.	PLT116	LSP
The purpose of Military	Training Routes, charted a	s VFR Military Training Routes (VR) and IFR Military Training Routes (IR) or
	• ,	I level of safety for all flight operations and to allow the military to conduct
A) low altitude, high-sp	<u> </u>	
B) radar instrument trai	•	
C) air-to-air refueling tr	raining.	
22.	PLT194	LSP
An ATC radar facility is		to a pilot flying on a heading of 270°: `TRAFFIC 3 O`CLOCK, 2 MILES,
A) North.	,	

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B) South.		
C) West.		
23.	PLT064	LSP
(Refer to figure	e 56 area 4.) What hazards to aircraft may	y exist in restricted areas such as R-5302B?
A) Unusual, ofto	en invisible, hazards such as aerial gunne	ery or guided missiles.
B) Military train	ing activities that necessitate acrobatic or	abrupt flight maneuvers.
C) High volume	e of pilot training or an unusual type of ae	rial activity.
24.	PLT064	LSP
(Refer to figure	e 60, point 6) The floor of the Class E airs	space over the town of Commerce is
A) 1,200 feet M	ISL.	
B) 700 feet AG	L.	
C) 1,200 feet A	AGL.	
25.	PLT116	LSP
Guy wires, whice least	ch support antenna towers, can extend ho	orizontally; therefore, the towers should be avoided horizontally by at
A) 2,000 feet he	orizontally.	
B) 300 feet hor	izontally.	
C) 1,000 feet h	orizontally.	
26.	PLT445	LSP
How should an	aircraft preflight inspection be accomplis	hed for the first flight of the day?
A) Quick walk a	around with a check of gas and oil.	
B) Any sequence	ce as determined by the pilot-in-comman	d.
C) Thorough ar	nd systematic means recommended by th	e manufacturer.
27.	PLT122	LSP
Consistent adh	erence to approved checklists is a sign o	fa
A) disciplined a	and competent pilot.	
B) pilot who lac	cks the required knowledge.	
C) low-time pilo	ot.	
28.	PLT127	LSP
Density altitude	e, and its effect on landing performance, is	s defined by
A) pressure alti	itude and ambient temperature.	
B) headwind ar	nd landing weight.	
C) humidity and	d braking friction forces.	
29.	PLT219	LSP
Name the four	fundamentals involved in maneuvering ar	n aircraft.
A) Power, pitch	n, bank, and trim.	
B) Thrust, lift, to	urns, and glides.	
C) Straight-and	d-level flight, turns, climbs, and descents.	
30.	PLT441	LSP
	mmand is responsible for ensuring that ea ow and when to	ach person on board applicable U. S. registered aircraft is briefed and

A) that has responsibility for the airport concerned.

B) with which the pilot communicates.

C) where the flight plan is filed.

The term 'weigh-off' means to determine the

C) standard weight and balance of the balloon.

A) static equilibrium of the balloon as loaded for flight.

B) amount of gas required for an ascent to a preselected altitude.

C) Stand back-to-back and hold onto the load ring.

B) Stand with knees slightly bent, in the center of the gondola, facing the direction of movement.

B) Become familiar with all available information concerning the flight.

A) Check the aircraft logbooks for appropriate entries.

LSP

B) Crab into the wind so as to maintain a position directly behind the towplane.

C) Establish a right wing low drift correction to remain in the flightpath of the towplane.

A) Crab into the wind by holding upwind (right) rudder pressure.

PLT120

69.

- B) an adjustable trim arrangement that allows the pilot to adjust the aircraft center of gravity during flight to obtain the most favorable aircraft performance.
- C) an adjustable trim arrangement that allows the center of gravity to shift fore and aft along the wing's keel.

76. PLT114 LSP

Which aircraft component ensures the wing has a pitch-up tendenacy?

- A) Keel pocket.
- B) Luff lines.
- C) Washout rod.

77. PLT147 LSI (Refer to figure provided.) While on final approach to a runway equipped with a standar shown by illustration D. This means that the aircraft is A) above the glide slope.	
shown by illustration D. This means that the aircraft is	d 2-bar VASI, the lights appear as
A) above the glide slope.	
B) below the glide slope.	
C) on the glide slope.	
78. PLT123 L	SP
Why should gyroplane operations within the cross-hatched portion of a Height vs. Veloci	city chart be avoided?
A) The rotor RPM may build excessively high if it is necessary to flare at such low altitu	ides.
B) Sufficient airspeed may not be available to ensure a safe landing in case of an engin	ne failure.
C) Turbulence near the surface can dephase the blade dampers causing geometric unb	palanced conditions on the rotor system.
79. PLT123 L	SP
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80. PLT011 L	SP
(Refer to figure 40.) Determine the total takeoff distance required for a gyroplane to clear is 95 $^{\circ}$ F and the pressure altitude is 1,700 feet.	ar a 50-foot obstacle if the temperature
A) 1,825 feet.	
B) 1,910 feet.	
C) 2,030 feet.	
81. PLT011 L	SP
(Refer to figure 40.) Determine the total landing distance to clear a 50-foot obstacle in a (OAT) is 75°F and the pressure altitude at the airport is 2,500 feet.	a gyroplane. The outside air temperature
A) 521 feet.	
B) 525 feet.	
C) 529 feet.	
82. PLT373 L	SP
The principal factor limiting the never-exceed speed (VNE) of a gyroplane is	
A) turbulence and altitude.	
B) blade-tip speed, which must remain below the speed of sound.	
C) lack of sufficient cyclic stick control to compensate for dissymmetry of lift or retreating first.	g blade stall, depending on which occurs
83. PLT149 LS	SP
Select the true statement concerning gyroplane taxi procedures.	
A) Taxi speed should be limited to no faster than a brisk walk in ideal conditions.	
B) The cyclic stick should be held in the neutral position at all times.	
C) The cyclic stick should be held slightly aft of neutral at all times.	
84. PLT149 L	SP
What precaution should be taken while taxiing a gyroplane?	

89. PLT260 LSP

During the transition from pre-rotation to flight, all rotor blades change pitch

- A) simultaneously to the same angle of incidence.
- B) simultaneously but to different angles of incidence.
- C) to the same degree at the same point in the cycle of rotation.