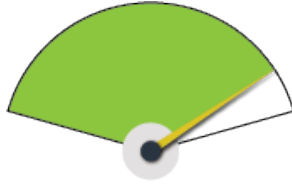




Kendall Sheldon

Remote Pilot Ground School

Practice Exam



Your Exam Score

92%

What should be said at the beginning and end of a pilot broadcast while operating near an untowered airport?

ID#: C63C

- ☐ The time of the broadcast.
- ☐ The aircraft call sign, tail number, or registration number.
- ☒ The name of the airport.

What type of conditions should be expected near lenticular clouds?

ID#: C16E

☒ High winds and turbulence

- ☐ Snow showers
- ☐ Clear, calm air

What are the characteristics of a moist, unstable air mass?

ID#: DFIE

☒ Cumuliform clouds and showery precipitation.

☐ Stratiform clouds and showery precipitation.

☐ Poor visibility and smooth air.

Thunderstorms reach their greatest intensity during the

ID#: 1FC9

☐ cumulus stage.

☒ mature stage.

☐ downdraft stage.

Flight within a restricted area should not be accomplished unless the pilot has

ID#: 872A

☐ received prior permission from the commanding officer of the nearest military base.

☒ received prior authorization from the controlling agency.

☐ obtained permission from FSS (Flight Service Station).

Which of the following features may create downdrafts that affect UAS performance?

ID#: 0E27

☐ Rocks or sand.

☒ Water and vegetation.

☐ Plowed ground or barren land.

The sun sets at 8:50 PM. The time is now 9:00 PM. You do not have a daylight waiver but your unmanned aircraft does have anti-collision lights. How long may you fly?

ID#: 8AB0

☐ 50 minutes.

☒ 20 minutes.

☐ 30 minutes.

In accordance with Part 107, except when within a 400' radius of a structure, at what maximum altitude can you operate sUAS?

ID#: D88C

☒ 400 feet AGL

☐ 600 feet AGL

☐ 500 feet AGL

What feature is normally associated with the cumulus stage of a thunderstorm?

ID#: 56F9

☐ Frequent lightning.

☒ Continuous updraft.

☐ Roll cloud.

You are operating your unmanned aircraft northeast of some airport.

Monitoring the CTAF on a handheld radio you hear a pilot announce that he is departing Runway 36 with a right-hand turnout. Might this aircraft conflict with your operation?

ID#: 0DDC

☐ No, because it will be flying to the south.

☒ Yes.

☐ No, because it will be flying to the southeast.

(Refer to Figure 24, Area 5.)

What does the circled R symbol mean?

ID#: FFE8

☐ This is an airport in Class G airspace.

☒ This is a private airport.

This is an airport in Class C airspace.

The portion of Class B and C airspace that touches the ground is called

ID#: 35BC

☐ the terminal area.

☐ the shelf area.

☒ the surface area.

The Remote PIC and the Visual Observer must work together in a way that

ID#: 4DA6

☐ ensures they are never more than 25 feet away from each-other.

☒ allows for effective communication, determined before the flight, and could utilize hand-held radios.

☐ allows for communication without the use of communication-assisting devices.

A TV station has hired a Remote Pilot to fly a small UA for news stories. The Remote Pilot has had multiple near misses with obstacles and two accidents. What should the TV station do to improve safety?

ID#: BBE1

☐ Nothing. The TV station is not responsible for flight operations.

☒ The TV station should learn to recognize hazardous attitudes and develop

standardized operating procedures that promote safety.

☐ File a safety deviation report with the FAA.

(Refer to Figure 18, Area A.) According to the Weather Depiction Chart, what is the ceiling in southwestern Arizona, near the Mexican border?

ID#: 72B8

☐ The sky is clear.

☒ Skies are clear to scattered. There is no ceiling.

☐ The ceiling is scattered.

What are the characteristics of unstable air?

ID#: FC38

☒ Turbulence and good surface visibility.

☐ Nimbostratus clouds and good surface visibility.

☐ Turbulence and poor surface visibility.

Which statement refers to Newton's Third Law?

ID#: 882B

☐ When the speed of a fluid increases, its pressure decreases.

☒ Every action has an equal and opposite reaction.

A stall occurs when the critical angle of attack is exceeded.

If the outside air temperature (OAT) at a given altitude is warmer than standard, the density altitude is

ID#: C238

☐ equal to pressure altitude.

☒ higher than pressure altitude.

☐ lower to pressure altitude.

(See Fig. 20, area 3) With ATC authorization, you are operating your small unmanned aircraft approximately 4 SM southeast of Elizabeth City Regional Airport (ECG). What hazard is indicated to be in that area?

ID#: D2B7

☒ Unmarked balloon on a cable up to 3,008 feet MSL.

☐ Unmarked balloon on a cable up to 3,008 feet AGL.

☐ High density military operations in the vicinity.

One method to combat autokinesis and flicker vertigo is to

ID#: 1866

☒ limit night flights to short periods.

☐ use high-visibility anti-collision lights.

☐ use binoculars to focus on the unmanned aircraft.

Which condition would most likely result from hyperventilation?

ID#: 6992

☐ Insufficient oxygen.

☒ Insufficient carbon dioxide.

☐ Excessive carbon monoxide.

The angular difference between true north and magnetic north is

ID#: C5E3

☐ compass acceleration error.

☐ magnetic variation.

☒ magnetic deviation.

Of what value is the Weather Depiction Chart to the pilot?

ID#: 0013

☐ For determining frontal trends and air mass characteristics.

☐ For a forecast of cloud coverage, visibilities, and frontal activity.

☒ For determining general weather conditions over a wide area.

(Refer to Figure 25.) The floor of Class B airspace at Addison Airport is

ID#: C0DD

☒ 2,500 feet MSL.

☐ at the surface.

☐ 3,000 feet MSL.

If someone in the operation starts to look pale, are breathing heavily and rapidly, and are complaining of feeling dizzy, they are probably suffering from what?

ID#: 3352

☒ Hyperventilation

☐ Heatstroke

☐ Dehydration

Which would most likely result in hyperventilation?

ID#: CFC9

☐ An extremely slow breathing rate.

☐ The excessive consumption of alcohol.

☒ Emotional stress, anxiety, or fear.

Hazardous attitudes occur to every pilot to some degree at some time. What are some of these hazardous attitudes?

ID#: 6AB0

- ☐ Poor risk management and lack of stress management.
- ☐ Poor situational awareness, snap judgments, and lack of decision making process.

✓ Anti-authority, impulsivity, macho, resignation, and invulnerability.

The purpose of emergency planning is to

ID#: A6CE

- ☐ develop communications links with emergency first responders.
- ☐ allocate resources properly.

✓ determine in advance how to minimize damage to persons or property.

What effect does high density altitude have on aircraft performance?

ID#: D772

- ☐ Aircraft may carry heavier loads on high density altitude days.

✓ Performance is reduced when density altitude is abnormally high.

- ☐ Performance is increased when density altitude is abnormally high.

A white box on a sectional chart indicates

ID#: F5AE

☐ area where adjacent sectional charts overlap.

☒ area where a Terminal Area Chart exists.

☐ controlled airspace.

You are in Class G airspace and are 3 miles from a heliport shown on the sectional chart. What must you do before flying your unmanned aircraft under Part 107?

ID#: A34C

☐ Obtain a waiver from ATC.

☐ Call the heliport manager and inform him/her of your flight.

☒ Nothing.

In a 60 degree banked level turn an aircraft's apparent weight

ID#: FBE9

☐ remains the same.

☐ is multiplied by 1.414.

☒ doubles.

In the IMSAFE model, the letter S refers to

ID#: 8FF7

☒ stress.

☐ superior planning.

☐ situational awareness.

A UAS loaded with the most rearward center of gravity is

ID#: ACDC

☐ more stable at slow speeds.

☐ more stable at fast speeds.

☒ less stable at all speeds.

When requesting a waiver, the required documents should be presented to the FAA at least how many days prior to the planned operation?

ID#: C137

☒ 90 days

☐ 10 days

☐ 30 days

Does a Remote PIC need to obtain an official FAA medical certification?

ID#: A863

☒ No, a Remote PIC does not need an official FAA medical certification to operate

- ☐ No, unless the Remote PIC has a preexisting condition that requires one
- ☐ No, unless he or she is operating commercially

A convective SIGMET has been issued for your area. If you go outside what type of weather might you expect?

ID#: A61A

- ☐ calm air with poor visibility
- ☐ high ceilings with good visibility

☒ high winds and heavy rain

To monitor traffic near a towered airport, which frequency should you use?

ID#: CB55

☐ Ground control.

☒ Control tower.

☐ Common Traffic Advisory Frequency

When are density altitude and pressure altitude equal?

ID#: AF7A

☐ When the temperature is 15°F.

☒ On a standard day.

☐ When the temperature is 59°C.

There is an overcast layer of clouds overhead at 700 feet AGL. How high may you fly your unmanned aircraft?

ID#: ED9D

☐ 400 feet AGL

☒ 200 feet AGL

☐ 200 feet MSL

Who is ultimately responsible for preventing a hazardous situation before an accident occurs?

ID#: C09D

☐ Person manipulating the controls

☐ Visual observer

☒ Remote Pilot in Command (Remote PIC)

When a stressful situation is encountered during UAS operations, an abnormal increase in the volume of air breathed in and out can cause a condition known as

ID#: 53C8

☐ Hypoxia

☒ Hyperventilation

☐ Heatstroke

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

ID#: 11D9

☐ Lift, drag, and weight equals thrust.

☒ Lift equals weight and thrust equals drag.

☐ Lift and weight equal thrust and drag.

Where would you look to find information about airport signs and markings?

ID#: B57A

☐ Chart Supplements publication

☒ Sectional Chart legend

☐ AIM (Aeronautical Information Manual)

If someone has a preexisting condition like chronic migraines, diabetes, or asthma, can they act as the Remote PIC?

ID#: 2E6F

- ☐ No, they may act as Visual Observer but not as Remote PIC.
- ☐ Yes, but they must have a special permit that allows them to do so.

✓ Yes, but they must have a backup system in place to land the aircraft in case symptoms of their condition jeopardize safety of flight.

When are the four forces that act on an airplane in equilibrium?

ID#: CB0B

✓ During unaccelerated flight.

- ☐ When the aircraft is at rest on the ground.
- ☐ When the aircraft is accelerating.

According to 14 CFR Part 107, an sUAS is an unmanned aircraft system

weighing

ID#: 7C76

- ☐ 55 lbs or less.
- ☐ 55kg or less.

✓ less than 55 lbs.

(Refer to Figure 20, area 2.) The flag symbol at Lake Drummond represents a

ID#: 93CA

- ☐ compulsory reporting point for Norfolk Class C airspace.
- ☐ compulsory reporting point for Hampton Roads Airport.

☒ visual checkpoint used to identify position for initial callup to Norfolk Approach Control.

To avoid a possible collision with a manned airplane, you estimate that your small unmanned aircraft climbed to an altitude greater than 600 feet AGL. To whom must you report the deviation?

ID#: 9892

☐ The National Transportation Safety Board

☒ Air Traffic Control

☐ The Federal Aviation Administration, upon request

You are planning on storing some unused lithium batteries for an extended period. You should

ID#: A5CF

☒ drain them to the recommended storage level.

☐ drain them to near zero volts.

☐ charge them to full charge.

An unjustified reliance on the belief that the aircraft's performance capability meets the demands imposed by the pilot's (usually overestimated) flying skills is an example of

ID#: B0BF

☐ impulsivity.

☒ flying outside the envelope.

☐ lack of situational awareness.

During preflight inspection you notice that the aircraft's lithium battery has a 1/2 inch dent in the case. What should you do?

ID#: 53A6

☒ Discard the damaged battery and replace it with a good battery.

☐ Repair the battery and continue with the flight.

☐ Nothing.

Which of the following types of operations are excluded from the requirements in Part 107?

ID#: 1B87

☒ Model aircraft for hobby use

☐ UAS used for motion picture filming

☐ Quadcopter capturing aerial imagery for crop monitoring

You are a Remote Pilot in Command for an antenna inspection team. You plan to use your unmanned aircraft to inspect towers in a remote area 10 hours away. After the drive, fatigue impacts your abilities to complete your assignment on time. Fatigue can be recognized

ID#: 71A5

✓ as being an impaired state.

- ☐ easily be recognized by an experienced pilot.
- ☐ by an ability to overcome lack of sleep.

What type of conditions should be expected in a barren area on a hot day?

ID#: C8AB

- ☐ Low stratus clouds.
- ☐ Stable air.

✓ Unstable air.

The term "angle of attack" is defined as the angle

ID#: BE31

- ☐ between the airplane's climb angle and the horizon.

✓ between the wing chord line and the relative wind.

formed by the longitudinal axis of the airplane and the chord line of the wing.

A NOTAM

ID#: 70D7

✓ is a notice containing information that is important to personnel involved with flight operations.

- must be filed by the Remote Pilot before initiating a flight operation.
- can be found in the A/FD portion of the Chart Supplements.

(Refer to Fig. 25)

At the Savannah Airport (GGV), what is the minimum visibility at ground level?

ID#: 9205

✗ 1 statute miles.

- 1 statute miles in fog.
- 3 statute miles.

If a Remote Pilot is found to have falsified his or her certification or test results, what action should he or she expect from the FAA?

ID#: 4162

✓ Civil sanctions and the suspension or revocation of a certificate or waiver

- You can't get punished if you don't get caught.
- A citation that must be paid within 30 days

Angle of attack is defined as the angle between the chord line of an airfoil and the

ID#: FD21

☐ rotor plane of rotation.

☐ pitch angle of an airfoil.

☒ direction of the relative wind.