



THE UNIVERSITY
of NORTH CAROLINA
at CHAPEL HILL

FAA - sUAS Part 107 Practice Exam

1) Damaged lithium batteries can cause?

- A. Increased endurance
- B. A change in aircraft center of gravity
- C. An inflight fire

2) When may sUAS flight operations take place in Restricted Areas?

- A. Always under 400' AGL
- B. Only with permission
- C. Never

3) When flying within 5 miles of an airport, when must the RPIC receive prior permission?

- A. Only when airport has a manned tower
- B. Always
- C. Only when flying over 400' AGL

4) (Refer to FAA-CT-8080-2G, Figure 59, area 2.) The chart shows a gray line with "VR1667, VR1617, VR1638, and VR1668." Could this area present a hazard to the operations of a small UA?

- A. No, all operations will be above 400 feet.
- B. Yes, the defined route provides traffic separation to manned aircraft.
- C. Yes, this is a Military Training Route from 1,500 feet AGL and below.

5) When may sUAS flight operations take place in Prohibited Areas?

- A. Only with permission
- B. Never
- C. Always under 400' AGL

6) You are a remote pilot for a co-op energy service provider. You are to use your UA to inspect power lines in a remote area 15 hours away from your home office. After the drive, fatigue impacts your abilities to complete your assignment on time. Fatigue can be recognized

- A. easily by an experienced pilot.
- B. by an ability to overcome sleep deprivation.
- C. as being in an impaired state

- 7) (Refer to FAA-CT-8080-2G, Figure 21.) What airport is located approximately 47 (degrees) 40 (minutes) N latitude and 101 (degrees) 26 (minutes) W longitude?**
- A. Mercer County Regional Airport.
 - B. Garrison Airport.
 - C. Semshenko Airport.
- 8) According to 14 CFR part 107, an sUAS is an unmanned aircraft system weighing**
- A. 55 kg or less.
 - B. 55 lbs or less.
 - C. Less than 55 lbs.
- 9) (Refer to FAA-CT-8080-2G, Figure 22, area 2.) At Coeur D’Alene which frequency should be used as a Common Traffic Advisory Frequency (CTAF) to monitor airport traffic?**
- A. 135.075 MHz.
 - B. 122.8 MHz.
 - C. 122.05 MHz.
- 10) You have been hired as a remote pilot by a local TV news station to film breaking news with a small UA. You expressed a safety concern and the station manager has instructed you to “fly first, ask questions later”. What type of attitude does this attitude represent?**
- A. Machismo.
 - B. Impulsivity.
 - C. Invulnerability.
- 11) The effective use of all available resources—human, hardware, and information—prior to and during flight to ensure the successful outcome of the operation is called**
- A. crew Resource Management
 - B. safety Management System
 - C. risk Management

- 12) Within how many days must an sUAS accident be reported to the FAA?**
- A. 10 days
 - B. 30 days
 - C. 90 days
- 13) Which of the following considerations is most relevant to a Remote PIC when evaluating unmanned aircraft performance?**
- A. Current weather conditions
 - B. The type of the sUAS operation
 - C. The number of available ground crew
- 14) When the RPIC deviates from the rules of Part 107 due to an emergency, when must they submit a written report to the FAA?**
- A. Always
 - B. Only when damage occurs
 - C. Upon request of the FAA
- 15) When operating an unmanned airplane, the remote pilot should consider that the load factor on the wings may be increased anytime**
- A. the CG is shifted rearward to the aft CG limit.
 - B. the airplane is subjected to maneuvers other than straight and level flight.
 - C. the gross weight is reduced.
- 16) What is the maximum groundspeed for sUAS under Part 107?**
- A. 55mph
 - B. 100mph
 - C. There is no maximum ground speed for sUAS
- 17) During your preflight inspection, you discover a small nick in the casing of your sUAS battery. What action should you take?**
- A. Throw it away with your household trash.
 - B. Use it as long as it will still hold a charge.
 - C. Follow the manufacturer's guidance.

18) When loading cameras or other equipment on an sUAS, mount the items in a manner that

- A. is visible to the (deleted visual) observer or other crewmembers.
- B. does not adversely affect the center of gravity.
- C. can be easily removed without the use of tools.

19) While operating a small unmanned aircraft system (sUAS), you experience a flyaway and several people suffer injuries. Which of the following injuries requires reporting to the FAA?

- A. Minor bruises
- B. Serious Injury
- C. Scrapes and cuts bandaged on site

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

- A. The National Transportation Safety Board.
- B. The FAA, upon request.
- C. Air Traffic Control.

21) If you are inspecting a tower that is 250' AGL, what is the maximum altitude your sUAS may fly?

- A. 650' AGL
- B. 450' AGL
- C. 500' AGL

22) According to 14 CFR part 107, who is responsible for determining the performance of a small unmanned aircraft?

- A. Owner or operator.
- B. Remote pilot-in-command.
- C. Manufacturer.

23) Which crewmember must hold a remote pilot certificate with an sUAS rating?

- A. The Remote Pilot in Command (RPIC)
- B. The person manipulating the controls
- C. The visual observer (VO)

24) The FAA may approve your application for a waiver of provisions in part 107 only when it has been determined that the proposed operation

- A. involves public aircraft or air-carrier operations
- B. will be conducted outside the United-States
- C. can be safely conducted under the terms of that certificate of waiver

25) You may operate an sUAS from a moving vehicle when no property is not carried for compensation or hire

- A. over a sparsely populated area
- B. over a parade or other social events
- C. over suburban areas

26) According to 14 CFR part 107, the responsibility to inspect the small UAS to ensure it is in a safe operating condition rests with the

- A. visual observer
- B. owner of the small UA.
- C. remote pilot-in-command

27) What could be a consequence of operating a small unmanned aircraft above its maximum allowable weight?

- A. Increased maneuverability
- B. Shorter endurance
- C. Faster speed

28) A person without a part 107 remote pilot certificate may operate an sUAS for commercial operations

- A. under the direct supervision of a Remote PIC
- B. never
- C. only when visual observers participate in the operation

29) Whose sole task during an sUAS operation is to watch the sUAS and report potential hazards to the rest of the crew?

- A. The person manipulating the controls
- B. The Remote Pilot in Command (Remote PIC)
- C. The visual observer (VO)

30) A stable air mass is most likely to have which characteristics?

- A. Showery precipitation
- B. Poor surface visibility
- C. Turbulent air

31) A risk of operating near dense housing or office buildings is:

- A. Possible frequency interference
- B. Center of gravity change
- C. Neither

32) Which is true regarding the presence of alcohol within the human body?

- A. Consuming an equal amount of water will increase the destruction of alcohol and alleviate a hangover.
- B. A small amount of alcohol increases vision acuity.
- C. Judgment and decision-making abilities can be adversely affected by even small amounts of alcohol.

33) According to 14 CFR part 48, when would a small UA owner not be permitted to register it?

- A. If the owner does not have a valid United States driver's license.
- B. All persons must register their small UA.
- C. If it weighs less than .55lbs.

34) The most comprehensive information on a given airport is provided by

- A. The Chart Supplements U.S. (formerly Airport/Facility Directory)
- B. Notices to Airmen (NOTAMs)
- C. Terminal Area Chart (TAC)

- 35) (Refer to FAA-CT-8080-2G, Figure 12.) The wind direction and velocity at KJFK is from**
- A. 180° magnetic at 4 knots.
 - B. 040° true at 18 knots.
 - C. 180° true at 4 knots.
- 36) According to 14 CFR part 107, what is required to operate a small UA within 30 minutes after official sunset?**
- A. Use of anti-collision lights.
 - B. Must be operated in a rural area.
 - C. Use of a transponder.
- 37) (Refer to FAA-CT-8080-2G, Figure 21.) You have been hired by a farmer to use your small UA to inspect his crops. The area that you are to survey is in the Devil`s Lake West MOA, east of area 2. How would you find out if the MOA is active?**
- A. Locate the information in the Small UAS database.
 - B. Contact Flight Service
 - C. Refer to the Military Operations Directory.
- 38) A battery casing that is distorted:**
- A. May lead to a complete loss of power during flight
 - B. May be a fire hazard
 - C. Both
- 39) (Refer to FAA-CT-8080-2G, Figure 12.) What are the current conditions for Chicago Midway Airport (KMDW)?**
- A. Sky 700 feet overcast, visibility 1-1/2SM, rain.
 - B. Sky 700 feet overcast, visibility 11, occasionally 2SM, with rain.
 - C. Sky 7000 feet overcast, visibility 1-1/2SM, heavy rain.
- 40) What are the characteristics of stable air?**
- A. Poor visibility and steady precipitation.
 - B. Good visibility and steady precipitation.
 - C. Poor visibility and intermittent precipitation.

- 41) Who is responsible for ensuring that there are enough crewmembers for a given sUAS operation?**
- A. The person manipulating the controls
 - B. The visual observer (VO)
 - C. The Remote Pilot in Command (Remote PIC)
- 42) Who is ultimately responsible for preventing a hazardous situation before an accident occurs?**
- A. The person manipulating the controls
 - B. The visual observer (VO)
 - C. The Remote Pilot in Command (Remote PIC)
- 43) How often is the Remote PIC required to inspect the sUAS to ensure that it is in a condition for safe operation?**
- A. Annually
 - B. Before each flight
 - C. Monthly
- 44) (Refer to FAA-CT-8080-2G, Figure 22, area 2.) At Coeur D`Alene which frequency should be used as a Common Traffic Advisory Frequency (CTAF) to monitor airport traffic?**
- A. 122.05 MHz.
 - B. 122.8 MHz.
 - C. 135.075 MHz.
- 45) If the RPIC has more than one VO, can they fly more than one sUAS?**
- A. True
 - B. False
- 46) (Refer to FAA-CT-8080-2G, Figure 21.) You have been hired by a farmer to use your small UA to inspect his crops. The area that you are to survey is in the Devil`s Lake West MOA, east of area 2. How would you find out if the MOA is active?**
- A. In the Military Operations Directory.
 - B. Refer to the legend for special use airspace phone number.
 - C. This information is available in the Small UAS database.

- 47) (Refer to FAA-CT-8080-2G, Figure 23, area 3.) What is the floor of the Savannah Class C airspace at the shelf area (outer circle)?**
- A. 1,300 feet AGL.
 - B. 1,300 feet MSL.
 - C. 1,700 feet MSL.
- 48) To get a complete weather overview for the planned flight, the Remote Pilot in Command should obtain a**
- A. A standard briefing
 - B. An outlook briefing
 - C. An abbreviated briefing
- 49) What effect does high density altitude have on the efficiency of a UA propeller?**
- A. Density altitude does not affect propeller efficiency.
 - B. Propeller efficiency is increased.
 - C. Propeller efficiency is decreased
- 50) (Refer to FAA-CT-8080-2G, Figure 26, area 4.) You have been hired to inspect the tower under construction at 46.9N and 98.6W, near Jamestown Regional (JMS). What must you receive prior to flying your unmanned aircraft in this area?**
- A. Authorization from the military.
 - B. Authorization from ATC.
 - C. Authorization from the National Park Service.
- 51) What are the cloud clearance requirements for sUAS operations?**
- A. 400' below clouds/1000' horizontally from clouds
 - B. 500' below clouds/2000' horizontally from clouds
 - C. 600' below clouds/3000' horizontally from clouds

- 52) Scheduled maintenance should be performed in accordance with the**
- A. Contractor requirements
 - B. Manufacturer's suggested procedures
 - C. Stipulations in 14 CFR part 43
- 53) How many sUAS's may a RPIC be responsible for at once during flight operations?**
- A. 1
 - B. 2
 - C. 3
- 54) A local TV station has hired a remote pilot to operate their small UA to cover breaking news stories. The remote pilot has had multiple near misses with obstacles on the ground and two small UAS accidents. What would be a solution for the news station to improve their operating safety culture?**
- A. The news station should recognize hazardous attitudes and situations and develop standard operating procedures that emphasize safety.
 - B. The news station does not need to make any changes; there are times that an accident is unavoidable.
 - C. The news station should implement a policy of no more than five crashes/incidents within 6 months.
- 55) Safety is an important element for a remote pilot to consider prior to operating an unmanned aircraft system. To prevent the final "link" in the accident chain, a remote pilot must consider which methodology?**
- A. Safety Management System.
 - B. Crew Resource Management.
 - C. Risk Management.
- 56) What is the minimum visibility for sUAS operations?**
- A. 1 Statute mile
 - B. 3 Statute mile
 - C. 5 Statute mile

57) You have received an outlook briefing from flight service through 1800wxbrief.com. The briefing indicates you can expect a low-level temperature inversion with high relative humidity. What weather conditions would you expect?

- A. Light wind shear, poor visibility, haze, and light rain.
- B. Turbulent air, poor visibility, fog, low stratus type clouds, and showery precipitation.
- C. Smooth air, poor visibility, fog, haze, or low clouds

58) What are characteristics of a moist, unstable air mass?

- A. Haze and smoke.
- B. Turbulence and showery precipitation.
- C. Poor visibility and smooth air.

59) After receiving a part 107 remote pilot certificate with an sUAS rating, how often must you satisfy recurrent training requirements?

- A. Every 12 months
- B. Every 24 months
- C. Every 36 months

60) (Refer to FAA-CT-8080-2G, Figure 20.) Who would a Remote Pilot in Command contact to "CHECK NOTAMS" as it is noted in the CAUTION box regarding the unmarked balloon?

- A. NTSB office
- B. FAA district office
- C. Flight Service

61) (Refer to FAA-CT-8080-2G, Figure 26.) What does the line of latitude at area 4 measure?

- A. The degrees of latitude north and south from the equator.
- B. The degrees of latitude east and west of the line that passes through Greenwich, England.
- C. The degrees of latitude east and west of the Prime Meridian.

62) A stall occurs when the smooth airflow over the unmanned airplane`s wing is disrupted, and the lift degenerates rapidly. This is caused when the wing

- A. exceeds the maximum speed.
- B. exceeds maximum allowable operating weight.
- C. exceeds its critical angle of attack

63) Which of the following source of information should you consult first when determining what maintenance should be performed on an sUAS or its components?

- A. Local pilot best practices
- B. Manufacturer guidance
- C. 14 CFR part 107

64) Before each flight, the Remote PIC must ensure that

- A. Objects carried on the sUAS are secure
- B. ATC has granted clearance
- C. The site supervisor has approved the flight

65) According to 14 CFR part 107 the remote pilot-in-command (PIC) of a small unmanned aircraft planning to operate within Class C airspace

- A. is required to file a flight plan.
- B. is required to receive ATC authorization.
- C. must use a visual observer.

66) You are part of a news crew, operating an sUAS to cover a breaking story. You experience a flyaway during landing. The unmanned aircraft strikes a vehicle, causing approximately \$800 worth of damage. When must you report the accident to the FAA?

- A. Within 10 days
- B. Within 30 days
- C. If requested

- 67) According to 14 CFR part 48, when must a person register a small UA with the Federal Aviation Administration?**
- A. All civilian small UAS weighing greater than .55 pounds must be registered regardless of its intended use.
 - B. When the small UA is used for any purpose other than as a model aircraft.
 - C. Only when the operator will be paid for commercial services.
- 68) (Refer to FAA-CT-8080-2G, Figure 20.) How would a remote PIC "CHECK NOTAMS" as noted in the CAUTION box regarding the unmarked balloon?**
- A. By utilizing the B4UFLY mobile application.
 - B. By contacting the FAA district office.
 - C. By obtaining a briefing via an online source such as 1800WXBrief.com.
- 69) Alcohol must not be consumed how many hours before a flight for the entire crew?**
- a. 8 hours
 - b. 10 hours
 - c. 12 hours
- 70) (Refer to FAA-CT-8080-2G, Figure 20.) Why would the small flag at Lake Drummond in area 2 of the sectional chart be important to a Remote PIC?**
- A. The flag indicates a GPS check point that can be used by both manned and remote pilots for orientation.
 - B. The flag indicates that there will be a large obstruction depicted on the next printing of the chart.
 - C. The flag indicates a VFR check point for manned aircraft, and a higher volume of air traffic should be expected there
- 71) (Refer to FAA-CT-8080-2G, Figure 26, area 2.) While monitoring the Cooperstown CTAF you hear an aircraft announce that they are midfield left downwind to RWY 13. Where would the aircraft be relative to the runway?**
- A. The aircraft is West.
 - B. The aircraft is South.
 - C. The aircraft is East.

- 72) The most comprehensive information on a given airport is provided by**
- A. the Chart Supplements U.S. (formerly Airport Facility Directory).
 - B. Terminal Area Chart (TAC).
 - C. Notices to Airmen (NOTAMS).
- 73) When using a small UA in a commercial operation, who is responsible for briefing the participants about emergency procedures?**
- A. The lead visual observer.
 - B. The remote PIC.
 - C. The FAA inspector-in-charge.
- 74) The greatest instability occurs when:**
- A. The air is moist and cold
 - B. The air is moist and warm
 - C. The air is dry and warm
- 75) To ensure that the unmanned aircraft center of gravity (CG) limits are not exceeded, follow the aircraft loading instructions specified in the**
- A. Aircraft Weight and Balance Handbook.
 - B. Aeronautical Information Manual (AIM).
 - C. Pilot's Operating Handbook or UAS Flight Manual.
- 76) A person whose sole task is watching the sUAS to report hazards to the rest of the crew is called**
- A. Person manipulating the controls
 - B. Remote-PIC
 - C. Visual observer
- 77) Under what condition should the operator of a small UA establish scheduled maintenance protocol?**
- A. UAS does not need a required maintenance schedule.
 - B. When the manufacturer does not provide a maintenance schedule.
 - C. When the FAA requires you to, following an accident.

78) Which technique should a remote pilot use to scan for traffic? A remote pilot should

- A. concentrate on relative movement detected in the peripheral vision area.
- B. continuously scan the sky from right to left.
- C. systematically focus on different segments of the sky for short intervals.

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

- A. 90 days
- B. 30 days
- C. 10 days

80) (Refer to FAA-CT-8080-2G, Figure 26, area 2.) While monitoring the Cooperstown CTAF you hear an aircraft announce that they are left base to RWY 31. Where would the aircraft be relative to the runway?

- A. The aircraft is North.
- B. The aircraft is South.
- C. The aircraft is East.

81) Identify the hazardous attitude or characteristic a remote pilot displays while taking risks in order to impress others?

- A. Macho.
- B. Invulnerability.
- C. Impulsivity.

82) According to 14 CFR part 107, the responsibility to inspect the small UAS to ensure it is in a safe operating condition rests with the

- A. owner of the small UAS
- B. remote pilot-in-command.
- C. visual observer.

83) (Refer to FAA-CT-8080-2G, Figure 2.) If an unmanned airplane weighs 33 pounds, what approximate weight would the airplane structure be required to support during a 30° banked turn while maintaining altitude?

- A. 34 pounds.
- B. 47 pounds.
- C. 38 pounds.

84) Who holds the responsibility to ensure all crewmembers who are participating in the operation are not impaired by drugs or alcohol?

- A. The Contractor
- B. The Site Supervisor
- C. The Remote Pilot in Command (Remote PIC)

85) Wind shear during sUAS operations:

- A. Is dangerous to aircraft
- B. Can rapidly change flight performance
- C. Both

86) When adapting crew resource management (CRM) concepts to the operation of a small UA, CRM must be integrated into

- A. The communications only.
- B. The flight portion only.
- C. All phases of the operation.

87) (Refer to FAA-CT-8080-2G, Figure 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?

- A. Unmarked balloon on a cable up to 3,008 feet MSL.
- B. High density military operations in the vicinity.
- C. Unmarked balloon on a cable up to 3,008 feet AGL

88) Which crewmember is required to be under the direct supervision of the Remote PIC when operating an sUAS?

- A. The person manipulating the controls
- B. The visual observer (VO)
- C. The Remote Pilot in Command (Remote PIC)

89) Under what condition would a small UAS not have to be registered before it is operated in the United States?

- A. When the aircraft weighs less than .55 pounds on takeoff, including everything that is on-board or attached to the aircraft.
- B. All small UAS need to be registered regardless of the weight of the aircraft before, during, or after the flight.
- C. When the aircraft has a takeoff weight that is more than .55 pounds, but less than 55 pounds, not including fuel and necessary attachments

90) According to 14 CFR part 107, how may a remote pilot operate an unmanned aircraft in class C airspace?

- A. The remote pilot must contact the Air Traffic Control (ATC) facility after launching the unmanned aircraft.
- B. The remote pilot must monitor the Air Traffic Control (ATC) frequency from launch to recovery.
- C. The remote pilot must have prior authorization from the Air Traffic Control (ATC) facility having jurisdiction over that airspace.

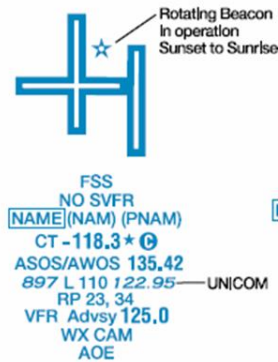
91) For both IFR and VFR, MTR's that are at or below 1500' AGL(no segment above 1500') are identified by how many digits?

- A. 2 digits
- B. 4 digits
- C. Varies

92) For both IFR and VFR, MTR's that above 1500' AGL(may have a segment below 1500') are identified by how many digits?

- A. 2 digits
- B. 3 digits
- C. 3 digits or fewer

For 93-95, use this figure:



- 93) What is the elevation of this airport?
- A. Does not say
 - B. 897'
 - C. 110'
- 94) This airport has a runway with a right traffic pattern.
- A. True
 - B. False
- 95) What frequency would you use to communicate with the airport tower?
- A.
 - B. 118.3
 - C. 135.42
 - D. 122.95

- 96) What is the height of this obstruction?



- A. 3368' AGL
- B. 1529' MSL
- C. 1529' AGL

- 97) Thunderstorms are a high threat to sUAS because during its mature stage of building updrafts may exceed speeds 6000' per minute.
- A. True
 - B. False
- 98) Antenna Towers are dangerous to sUAS operations because they are supported by wires which can extend how far from the tower itself?
- A. 500' horizontally
 - B. 1500' horizontally
 - C. 2500' horizontally
- 99) Clouds are reported as broken when 5/8-7/8 .
- A. True
 - B. False
- 100) What is the Barometric pressure at this airport?
- "METAR KGGG 161753Z AUTO 14021G26KT 3/4SM +TSRA BR BKN008 OVC012CB 18/17 A2970 RMK PRESFR"
- A. 16.17"Hg
 - B. 14.02 "Hg
 - C. 29.70"Hg