

## ***Final Exam***

1. What is the entry level cost for a sUAS used in land surveying?
  - a) \$2,000
  - b) \$10,000
  - c) \$40,000
  - d) \$400,000
  
2. Regulations introduced in 2016 which govern the use of all sUAS for surveying are found on the FAA website under Title 14 CFR part
  - a) 61
  - b) 91
  - c) 107
  - d) 135
  
3. In addition to the standard FAA regulations for operating a sUAS it is necessary to obtain special written permission from which agency to legally fly a sUAS for surveying purposes within the airspace of class B, C, D, or E airspace as found on aeronautical charts.
  - a) Local police
  - b) Governor of that state
  - c) FAA
  - d) TSA
  
4. Lidar and \_\_\_\_\_ cameras are the two most commonly used sensor types which are used in land surveying.
  - a) Panoramic
  - b) Hyperspectral
  - c) Electro Optical
  - d) Multispectral
  
5. Combining GPS and GCPs with \_\_\_\_\_ greatly improves the precision of data acquired by a sUAS.
  - a) Satellite imagery
  - b) RTK
  - c) INS
  - d) Ground survey data

6. Which type of sUAS is most commonly used today for land surveying due to their ease of use?
- a) Helicopter
  - b) Multicopter
  - c) Fixed Wing
  - d) Gyrocopter
7. There is no limit to the number of lithium polymer batteries that can be carried onto a commercial airline if they are each less than \_\_\_\_\_.
- a) 2" x 4" x 10"
  - b) 2.2 lbs.
  - c) 100Wh
  - d) 5,000 mAh
8. Mission planning software used to create a land survey can automatically determine the flight path, position to take imagery, altitude and flight speed once the user defines the boundary of the area and the \_\_\_\_\_.
- a) Overlap
  - b) Sidelap
  - c) Ground Sampling Distance
  - d) Heading
9. Mission planning for land surveying is more complicated for fixed wing compared to rotary wing aircraft due to \_\_\_\_\_.
- a) GCP placement
  - b) Wind direction
  - c) GPS drift
  - d) RF interference
10. Which weather issue is least likely to cause issues with data collection from a sUAS for land surveying?
- a) Rain
  - b) Clouds
  - c) Fog
  - d) High wind speed