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Authoring Organization: Del Mar College
Written by: Nate Jennings
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Unit 3 Quiz

1. Name at least 3 types of remote sensors that can be used on both aerial and satellite systems.

2. What is the difference between an “ortho photo” and a “true ortho photo”?

3. How is an image formed by a RADAR system and what are some uses of RADAR imagery?

4. How is an image formed by a LiDAR system and what are some uses of LiDAR imagery?

5. What is the major difference between hyperspectral image data and multi-spectral image data?

6. Name and describe the major parts of a digital image.

7. What does 8-bit data mean?

8. Why does healthy green vegetation tend to reflect higher in the infrared part of the electromagnetic spectrum than the green wavelength?

9. Why does water tend to not reflect much in the infrared part of the electromagnetic spectrum?

10. Briefly explain how different remote sensor bands can be viewed on a color display.

11. What are some of the important characteristics when ordering and acquiring imagery from the following:
   a. Aerial Systems
   b. Satellite Systems

12. Name and describe 3 pre-processing routines that can be used in ArcGIS.

13. What is a histogram and what does it show?
14. What can band ratios be used for?

15. Briefly describe the NDVI ratio and what is it typically used for.

16. Briefly describe the tasseled cap transformation and what it is typically used for.