

ARSET Advanced NDVI Homework 1

Please complete all of these questions and submit the form to receive credit. The first few questions refer to the lecture review and the remaining questions refer to specific steps within the homework handout. Homework must be submitted by February 24th, 2016.

* Required

1. Name *

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2. Email *

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3. 1. Which of these data portals do NOT provide Landsat data? *

Mark only one oval.

- ☐ A. GloVis
- ☐ B. Earth Explorer
- ☐ C. MRTWeb
- ☐ D. WELD

4. 2. What is the formula for NDVI? *

Mark only one oval.

- ☐ A. $(\text{Red} - \text{Near Infrared}) / (\text{Blue} - \text{Near Infrared})$
- ☐ B. $(\text{Near Infrared} - \text{Red}) / (\text{Near Infrared} + \text{Red})$
- ☐ C. $(\text{Green} - \text{Blue}) / (\text{Green} + \text{Blue})$
- ☐ D. $(\text{Red} - \text{Green}) / (\text{Near Infrared} - \text{Green})$

5. 3. Chlorophyll in plants absorbs green wavelengths. *

Mark only one oval.

- ☐ True
- ☐ False

6. 4. In general, what happens to NDVI in the spring and summer months in North America? *

Mark only one oval.

- ☐ A. They decrease
- ☐ B. They increase
- ☐ C. They stay the same
- ☐ D. None of the above

7. 5. Name an application for NDVI that relates to your work or study area. *

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8. 6. Explain how a NDVI anomaly is calculated. *

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9. 7. What does the OpenLayers QGIS Plugin include? *

Mark only one oval.

- ☐ A. Google Maps
- ☐ B. OpenStreet Maps
- ☐ C. Apple Maps
- ☐ D. All of the Above

10. 8. What is NOT included in the attribute table of the CA_Cities_Top10 layer? *

Mark only one oval.

- ☐ A. City names (NAMELSAD)
- ☐ B. Latitude
- ☐ C. Longitude
- ☐ D. Population of each city

11. 9. When you download Landsat imagery from Glovis, you obtain multiple .TIF files and each one is slightly different. What is the significance of the end of each file name? *

Mark only one oval.

- ☐ A. The number of pixels in each file
- ☐ B. The band number
- ☐ C. The importance of each file
- ☐ D. The Julian date

12. 10. What is included in the Metadata tab of your raster image? *

Mark only one oval.

- ☐ A. Layer Spatial Reference System
- ☐ B. Band Statistics
- ☐ C. Pixel Size
- ☐ D. All of the Above

