

# ARSET Advanced NDVI Homework 2

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 March 2nd, 2016.

\* Required

1. Name \*

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2. Email \*

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3. 1. For Landsat 4, 5, and 7 which band is the Near Infrared band? \*

*Mark only one oval.*

- ☐ A. Band 1
- ☐ B. Band 5
- ☐ C. Band 8
- ☐ D. Band 4

4. 2. For Landsat 8 which band is the Near Infrared band? \*

*Mark only one oval.*

- ☐ A. Band 1
- ☐ B. Band 5
- ☐ C. Band 8
- ☐ D. Band 4

5. 3. Where can you obtain Landsat images? \*

*Mark only one oval.*

- ☐ A. LandsatLook Viewer
- ☐ B. Earth Explorer
- ☐ C. GloVis
- ☐ D. All of the above

6. 4. Which QGIS function do you use to add multiple Landsat bands as one layer? \*

*Mark only one oval.*

- ☐ A. Add Raster Layer
- ☐ B. Raster/Miscellaneous/Merge
- ☐ C. Raster/Align Rasters
- ☐ D. Raster/Raster Calculator

7. 5. Explain what the Raster/Extraction/Clipper function does. \*

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8. 6. Where could you find the mean value for band 5 of your Landsat image within QGIS? \*

Mark only one oval.

- ☐ A. Layer Properties/Metadata
- ☐ B. Layer Properties/Style
- ☐ C. Attribute Table
- ☐ D. Raster/Miscellaneous/Information

9. 7. The NDVI values of a recently burned area within a healthy forest will be \_\_\_\_\_. \*

Mark only one oval.

- ☐ A. higher than the surrounding vegetation
- ☐ B. lower than the surrounding vegetation
- ☐ C. the same as the surrounding vegetation
- ☐ D. larger than 1

10. 8. Using the RdYIGn color palette in the color map portion of the Properties/Style tab of your Calaveras\_ndvi layer, what color indicates a recently burned area? \*

Mark only one oval.

- ☐ A. Dark green
- ☐ B. Light green
- ☐ C. Yellow
- ☐ D. Red

11. 9. What is the mean value of the Calaveras\_ndvi layer? Where can you find this information? \*

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12. 10. Explain how you would use an NDVI image for your study area. What types of additional files would you need to make a map of this region (e.g. National Park boundary file, previous wildfire ignition points layer, land use layer)? \*

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