



Applied Remote Sensing Training (ARSET) Program

Connecting Citizen Science with Remote Sensing

Homework Questions

Question 1

True or False: Citizen science is when the public participates in scientific research.

Answers: (bold correct)

- a. **True**
- b. False

Question 2

What are the benefits of citizen science?

Answers: (bold correct)

- a. Increased participation in research and applications
- b. Cost-effective and high-quality data
- c. Assistance with hazards warnings – floods, earthquakes, sea ice, etc.
- d. Both A and C
- e. **A, B, and C**

Question 3

List three limitations of citizen science.

Short answer:

Question 4

In Floating Forests, why are images displayed with a combination of SWIR (red), IR (green), and red band (as blue)?

Answers: (bold correct)

- a. They are the only three bands available from Landsat
- b. This allows kelp canopy to stand out as bright green**
- c. This allows us to calculate the Normalized Difference Vegetation Index (NDVI)
- d. This improves the pixel size and image quality

Question 5

Select all that apply: Citizen science data collected for FjordPhyto are used for which of the following?

Answers: (bold correct)

- a. Species identification**
- b. Cell abundance**
- c. Toxicity
- d. Carbon biomass**
- e. Euphotic depth estimates**

Question 6

List one key takeaway from the Lake Observations by Citizen Scientists and Satellites (LOCSS) project.

Short answer:

Question 7

True or False: Games like NeMO-Net are not only an educational tool capable of engaging citizens of all ages, but also help collect data from remote areas where coral reefs provide critical ecosystem services.

Answers: (bold correct)

- a. True**
- b. False

Question 8

List one step of the Soundscapes to Landscapes (S2L) Approach.

Short answer:

Question 9

Select all that apply: For recruitment of citizen scientists in Soundscapes to Landscapes (S2L), the team used:

Answers: (bold correct)

- a. Television commercial
- b. Word-of-mouth**
- c. Project website**
- d. Social media**

Question 10

Describe how you would like to use citizen science and remote sensing data to support your work.

Short answer: