Assignment 9

The due date for submitting this assignment has passed. As an honour, you have not submitted this assignment.

1) ______ is a simple graphical indicator that can be used to analyze remote sensing measurements, and assess whether the target being observed contains live green vegetation or not.
   - O/NIR
   - HGI
   - NDI
   - NDVI
   - None of the above
   No, the answer is incorrect. Correct Answer: NDI

2) Unhealthy vegetation will reflect ______, while light and ______ NIR?
   - More, less
   - Less, more
   - Less, less
   - More, noisy
   No, the answer is incorrect. Correct Answer: More, less

3) Healthy vegetation will ______, most of the visible light falling on it.
   - Reflect
   - Absorb
   - Emit
   - Transmit
   No, the answer is incorrect. Correct Answer: Reflect

4) Leaves reflect ______
   - Ultra-violet
   - Visible
   - IR
   - X-ray
   No, the answer is incorrect. Correct Answer: Visible

5) Wavelength ‘r’ - 1064m corresponds with which form of remote sensing?
   - Only active
   - Only passive
   - Both active and passive
   - Only optical
   No, the answer is incorrect. Correct Answer: Only passive

6) Most passive microwave sensors are therefore characterized by ______.
   - Very high spatial resolution
   - Moderate spatial resolution
   - High spatial resolution
   - Low spatial resolution
   No, the answer is incorrect. Correct Answer: Low spatial resolution

7) RAMAN is an acronym for:
   - Radiometric And Mapping
   - Radiometric And Mapping
   - Radiometric And Mapping
   - Radiative And Mapping
   No, the answer is incorrect. Correct Answer: Radiometric And Mapping

8) Interferometric SAR (iSAR) allows accurate measurements of the radiation travel path because it is ______
   - Absorbed
   - Non-coherent
   - Coherent
   - Scattered
   No, the answer is incorrect. Correct Answer: Coherent

9) The distance between the two satellites (or orbits) in the plane perpendicular to the orbit is called the interferometric baseline and its projection perpendicular to the line of sight is the ______
   - Azimuth
   - Degree baseline
   - Parallel baseline
   - Perpendicular baseline
   No, the answer is incorrect. Correct Answer: Perpendicular baseline

10) The SAR interferogram is generated by cross-_______, pixel by pixel, the first SAR image with the complex conjugate of the second.
    - Multiplying
    - Adding
    - Subtracting
    - Dividing
    No, the answer is incorrect. Correct Answer: Adding