

The correct answer is: The descending orbit is represented by ABC., The ascending orbit is represented by CDA Question 4 The following figure depicts a remote sensing system. Choose one description to match the figure. Correct CCD detector Mark 1.00 out of 1.00 Flag question Optics Projection of detector on ground Direction Ground Swath of motion Select one: a. Antenna b. Array Sensor Systems c. Line Scanning Sensor Systems The correct answer is: Array Sensor Systems Question 5 Using the figure from the last question, match the labels with the terms Correct Mark 1.00 out of along track A Flag question across-track coverage 🔻 🧹 across-track B The correct answer is: along track – A, swath – across-track coverage, across-track – B Question 6 The figure shows the optical path of the Landsat ETM+ sensor. Which optical system is used? Correct Scan Mirror Mark 1.00 out of Cold Prime Focal Plane (7 cycles per second) 1.00 Focal Flag question Plane.

Select one:

□ a. Combination of reflective and refractive optics

□ b. Reflective optics ✓

□ c. Refractive optics

The correct answer is: Reflective optics

Question **7**Correct
Mark 1.00 out of 1.00

Flag question

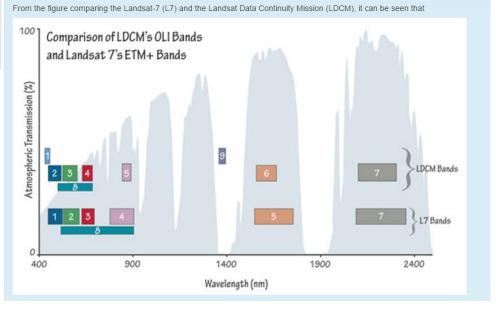
Optical remote sensors are placed on the focal planes in the optical system in order to generate sharp images. Using the figure from the last question, which of the following statement is correct?

Select one or more:

- a. The thermal infrared sensor is placed at the cold focal plane.
- b. The near infrared sensor is placed at the prime focal plane.
- c. The thermal infrared sensor is placed at the prime focal plane.
- d. The near infrared sensor is placed at the cold focal plane.
- e. The visible sensor is placed at the cold focal plane.
- f. The visible sensor is placed at the prime focal plane.

The correct answer is: The visible sensor is placed at the prime focal plane., The near infrared sensor is placed at the prime focal plane., The thermal infrared sensor is placed at the cold focal plane.





Select one: a. LDCM has higher spectral resolution than L7 b. LDCM has higher radiometric resolution than L7 c. LDCM has higher temporal resolution than L7 d. LDCM has higher spatial resolution than L7 e. It is impossible to make a comparison between L7 and LDCM.

The correct answer is: LDCM has higher spectral resolution than L7

Question 9 Correct Mark 1.00 out of 1.00

Flag question

The SPOT satellites have a nominal re-visit time of 26 days. But it is possible to observe an area every 4 - 5 days at time of emergency while maintaining the same spatial resolution because

Select one:

- a. Multiple satellites form a constellation.
- b. Different imaging modes can be used.
- c. The optical sensors can observe with oblique pointing.

The correct answer is: The optical sensors can observe with oblique pointing.

Question 10
Correct
Mark 1.00 out of 1.00

Flag question

Relative to the Landsat satellite series, the SPOT satellites represent a new generation of optical remote sensing systems. Furthermore, the SPOT sensors have more spectral bands than the Landsat sensors.

Select one

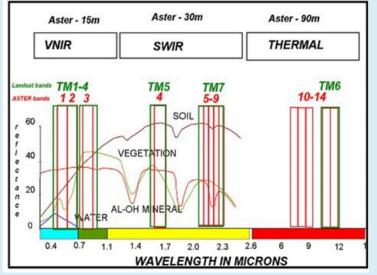
True

● False

The correct answer is 'False'

Question 11
Correct
Mark 1.00 out of 1.00
Flag question

From the figure comparing the Landsat-TM and ASTER, it can be seen that



Select one:

- a. ASTER has higher radiometric resolution than TM
- b. It is impossible to make a comparison between TM and ASTER.
- c. ASTER has higher spectral resolution than TM.
- $\ensuremath{\bigcirc}$ d. ASTER has higher temporal resolution than TM
- o e. ASTER has higher spatial resolution than TM

The correct answer is: ASTER has higher spectral resolution than TM.