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Courses » Introduction to Remote Sensing

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Unit 3 - Week 1

Register for Certification exam

Course outline

How to access the portal

Model Assignment

Week 1

- What is satellite based remote sensing?
- Development of remote sensing technology and advantages
- Different platforms of remote sensing.
- Electromagnetic Spectrum, solar reflection and thermal emission
- Interaction of EM radiation with atmosphere including atmospheric scattering, absorption and emission
- Quiz :

Assignment 1

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment. **Due on 2019-02-13, 23:59 IS**

1) The technology of acquiring information about the Earth's surface without actually being in contact with it is called: **1 point**

- Geographic Information Systems
- Remote Sensing
- Global Positioning System
- Global Navigation Satellite Systems

No, the answer is incorrect.

Score: 0

Accepted Answers:

Remote Sensing

2) Which sensors detect natural energy (radiation) that is emitted or reflected by the object or scene being observed ? **1 point**

- Scanner
- Passive sensors
- Active sensors
- All of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Passive sensors

3) Electromagnetic radiation: **1 point**

- Produces a time varying magnetic field and vice versa
- Once generated, remains self-propagating

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All of the above

4) Remote sensing sensors record:

1 point

- Only reflected energy
- Only emitted energy
- Both reflected and emitted energy
- None of the above

No, the answer is incorrect.**Score: 0****Accepted Answers:***Both reflected and emitted energy*5) Which sensors provide their own source of energy to illuminate the objects they observe ? **1 point**

- Scanner
- Passive sensors
- Active sensors
- All of the above

No, the answer is incorrect.**Score: 0****Accepted Answers:***Active sensors*6) Which one of the following frequency regions is a part of sun's radiation ? **1 point**

- Ultraviolet frequency region
- Visible frequency region
- Infrared frequency region
- All of the above

No, the answer is incorrect.**Score: 0****Accepted Answers:***All of the above*7) An orbit which is a nearly polar orbit around a planet, in which the satellite passes over any given point of the planet's surface at the same local mean solar time is called: **1 point**

- Geostationary orbit
- Sun-synchronous orbit
- Geosynchronous orbit
- Medium Earth orbit

No, the answer is incorrect.**Score: 0****Accepted Answers:***Sun-synchronous orbit*8) First Indian remote sensing satellite was: **1 point**

- SPOT-1
- Cartosat-1
- IRS-1A
- Resourcesat-1



No, the answer is incorrect.

Score: 0

Accepted Answers:

IRS-1A

9) The part radiation due to scattered/diffused radiation entering the field of view of a remote sensor other than that from the required target: **1 point**

- Reduces the contrast of the image and also its sharpness
- Increases the contrast of the image but reduces the sharpness
- Increases both the contrast and sharpness
- Reduces the contrast but increases the sharpness

No, the answer is incorrect.

Score: 0

Accepted Answers:

Reduces the contrast of the image and also its sharpness

10) Which are characteristics of EM radiation?

- Wavelength
- Frequency
- Wavelength and frequency
- None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Wavelength and frequency



1 point

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