

ESM238

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Question: The temperature above which electromagnetic emission begins is \_\_\_\_\_

Answer: Absolute zero

Question: Electromagnetic radiation may be generated into a \_\_\_\_\_ and

\_\_\_\_\_

Answer: Electric field and a magnetic field

Answer: Electric and magnetic field

Question: Aerosols are larger in size than the wavelength of \_\_\_\_\_

Answer: Sunlight

Question: In the effort to collect data hand-held Cameras are used to acquire  
\_\_\_\_\_images

Answer: Oblique

Question: Photographic cameras use \_\_\_\_\_ Coated systems to record image

Answer: Film

Question: \_\_\_\_\_ Remote sensing devices detect reflected EMR

Answer: Passive

Question: An Air Photo Index map is a \_\_\_\_\_ representation of flight lines and  
photo centres

Answer: Graphical

Question: The process of transmission of electromagnetic waves through the  
atmosphere and the influence of the atmosphere is called \_\_\_\_\_

Answer: Radioactive transfer

Question: A photographic camera used with a flash is an example of \_\_\_\_\_  
remote sensing platform

Answer: Active

Question: The ratio of the distance between two points on the map or photo to the  
actual distance between the same two points on the ground is called \_\_\_\_\_

Answer: Scale

Question: The spectral signature of an object is its pattern of \_\_\_\_\_ over a range  
of wavelengths

Answer: Reflectance

Question: Large-scale photos cover \_\_\_\_\_ areas in \_\_\_\_\_ details

Answer: Small, Greater

Question: \_\_\_\_\_are small registration marks exposed at the edge of aerial photographs

Answer: Fiducial marks

Question: \_\_\_\_\_is the 3-D view of a photograph which results when two overlapping photos are viewed using a stereoscope

Answer: Stereoscopic coverage

Question: Shortwave \_\_\_\_\_may be used for geological classification of rock types

Answer: Infrared

Question: The use of images from various regions of EM spectrum is \_\_\_\_\_

Answer: Multispectral

Question: A \_\_\_\_\_Is a photographic reproduction of a series of aerial photographs

Answer: Mosaic

Question: \_\_\_\_\_requires that the objects be in direct physical contact

Answer: Conduction

Question: The wavelength of emitted energy is a function of \_\_\_\_\_

Answer: Temperature

Question: Thermal radiation can be expressed in terms of \_\_\_\_\_

Answer: Black body theory

Question: \_\_\_\_\_ is the ratio of incident flux on a sample surface to reflected flux from the surface

Answer: Reflectance

Question: The reflectance using the incident light sun from the sun is called \_\_\_\_\_

Answer: Albedo

Question: The sun is the energy source used to detect reflective energy of ground surfaces in the visible and near \_\_\_\_\_regions

Answer: Infrared

Question: Radioactive scattering depends on the \_\_\_\_\_and the direction of incident light and scattering

Answer: Size of the particles

Question: Scattering is dominant in the \_\_\_\_\_wavelength region

Answer: Shorter

Question: Thermal radiation is dominant in the \_\_\_\_\_region

Answer: Thermal infrared

Question: The higher the altitude of the platform used to acquire the remote sensing data the \_\_\_\_\_ the Imagery

Answer: Smaller

Question: Remote sensing devices that emit signals and detect the intensity of the signals reflected back off an object are said to be \_\_\_\_\_

Answer: Active

Question: Air photos record all visible features on the Earth's surface from an \_\_\_\_\_ perspective

Answer: Overhead

Question: The distance between the middle of the camera lens to the focal plane is called \_\_\_\_\_

Answer: Focal length

Question: The amount by which one photograph includes the area covered by another photograph, expressed in percentage, is known as \_\_\_\_\_

Answer: Overlap

Question: Air photo \_\_\_\_\_ is used to relate photos to their geographical locations

Answer: Index map

Question: When prints are laid out such that the prints join together in a best fit scenario, the mosaic is said to be \_\_\_\_\_

Answer: Uncontrolled

Question: When prints from mosaics are tone-matched but not rectified, the mosaic is said to be \_\_\_\_\_

Answer: Semi controlled

Question: When prints are tone-matched and rectified to fit the map base, the mosaic is said to be \_\_\_\_\_

Answer: Controlled

Question: Data collection in remote sensing involves which of the following \_\_\_\_\_

Answer: All of the options

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Question: \_\_\_\_\_ Remote sensing devices detect reflected EMR  
Answer: Passive

Question: A photographic scale of 1 millimeter representing 15 meters means?  
Answer: 1:15000

Question: The \_\_\_\_\_ does generate electromagnetic energy required in sensing  
Answer: Sun

Question: Electromagnetic Radiation is \_\_\_\_\_ energy in transit  
Answer: Electromagnetic

Question: The technique of information about objects through analysis of data obtained using equipment that are not in physical contact with objects of investigation is called\_\_\_\_\_  
Answer: Remote sensing

Question: The technique of information about objects through analysis of data obtained

using equipment that are not in physical contact with objects of investigation is called \_\_\_\_\_

Answer: Emission

Question: A small amount of electromagnetic energy is produced by internal heat and \_\_\_\_\_

Answer: Radioactive decay

Question: Electro-magnetic wave can be treated as a photon or a \_\_\_\_\_

Answer: Light quantum

Question: In radiation, the \_\_\_\_\_ is the magnitude of oscillating electric field

Answer: Amplitude

Question: The energy radiated from an object is called \_\_\_\_\_ energy

Answer: Radiant

Question: A plane including electric field is called a plane of \_\_\_\_\_

Answer: Polarization

Question: Of the total in-coming solar radiation \_\_\_\_\_% is reflected by the earth's surface

Answer: 4

Question: Of the incoming solar radiation, \_\_\_\_\_% is reflected by the atmosphere

Answer: 7

Question: Of the incoming solar radiation, \_\_\_\_\_% is reflected by the clouds

Answer: 24

Question: \_\_\_\_\_% of the solar radiation is absorbed by the earth's atmosphere

Answer: 16

Question: \_\_\_\_\_% of the solar radiations is absorbed by the clouds

Answer: 2

Question: \_\_\_\_\_% of the solar radiation is absorbed directly by the earth's atmosphere

Answer: 23

Question: \_\_\_\_\_% of the solar radiation is absorbed indirectly by the earth's surface as a result of diffuse scattering

Answer: 24

Question: \_\_\_\_\_ law is a function of Temperature and wavelength

Answer: Planck's

Question: \_\_\_\_\_ law is obtained by integrating the spectral radiance

Answer: Stefan-Boltzmann's

Question: The atmospheric effects of radioactive transfer may be multiplicative and \_\_\_\_\_

Answer: Additive

Question: Digital cameras use an array of \_\_\_\_\_ to record images

Answer: EMR Sensors

Question: The type of camera used in taking air photos in mountainous terrains is called \_\_\_\_\_

Answer: Trimetrigon Cameras

Question: An array of cameras that take simultaneous overlapping images of a terrain is called \_\_\_\_\_

Answer: Trimetrigon Cameras

Question: The process of gathering and studying information required for the identification of the various natural and cultural features from photos is called \_\_\_\_\_

Answer: Ground-interpretation

Question: 1mm = 35m is \_\_\_\_\_ form of presentation of scale.

Answer: Unit equivalent

Question: 1:40000 is \_\_\_\_\_ form of presentation of scale

Answer: Ratio

Question: Express the scale 1 mm = 40 m in ratio form \_\_\_\_\_

Answer: 1:40000

Question: The making of measurements on aerial photography is primarily \_\_\_\_\_

Answer: Quantitative

Question: Remote sensing images which consist of many themes are \_\_\_\_\_

Answer: Multi-thematic

Question: Image interpretation is basically a \_\_\_\_\_ process

Answer: Deductive

Question: The image interpreter should always be conscious of all the \_\_\_\_\_ information

Answer: Tilting

Question: Images may be searched using a \_\_\_\_\_ expedition or a logical method

Answer: Fishing

Question: Detection and identification of stimulus on aerial photographs are \_\_\_\_\_

Answer: Qualitative

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