Space and Forensic Science

Forensic Science · Answer Key · 7 Questions

1. Which field of study applies astronomical calculations and celestial facts to help establish timelines in historical investigations and art forensics?

A) Astrobiology
B) Forensic Astronomy
C) Cosmochemistry
D) Forensic Geology

2. What space object that falls to Earth is analyzed using forensic laboratory techniques like mass spectrometry to identify its minerals?

A) Comet tail
B) Solar flare
C) Meteorite
D) Black hole

3. High-resolution imagery from satellites in orbit is used in satellite forensics primarily to investigate which Earth-based issue?

A) Large-scale illegal deforestation
B) Deep-sea ocean currents
C) Solar wind fluctuations
D) Ozone layer depletion

4. Which dating technique used in forensic science to determine the age of organic remains is also used by planetary scientists to date ancient materials?

A) Fingerprint dusting
B) Handwriting analysis
C) Facial reconstruction
D) Radiometric dating

5. When artificial space debris falls to Earth, forensic investigators examine what specific detail to trace its spacecraft manufacturer?

A) Genetic markers
B) Serial numbers
C) DNA sequences
D) Refractive indices

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6. Which type of invisible light, used by astronomers to study hot stars, is also used by forensic scientists to detect body fluids at crime scenes?

A) Sound waves
B) Radio waves
C) Ultraviolet (UV) light
D) Gamma rays

7. Which instrument commonly used in forensic labs to examine hair and fiber evidence is also used to inspect microscopic cosmic dust particles?

A) Scanning Electron Microscope (SEM)
B) Seismograph
C) Stethoscope
D) Geiger counter

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