The Yellowstone Volcano Observatory: sample test

Version A

Name _____ Class _____ Date _____ Score _____

1. What is the primary reason the Yellowstone Volcano Observatory is considered a virtual observatory?

A. It relies entirely on satellite data to monitor activity.
B. It does not have a single physical facility or building.
C. It is a digital simulation used for educational purposes.
D. It is managed remotely by scientists located in other states.

2. How does the organizational structure of the Yellowstone Volcano Observatory differ from most other U.S. volcano observatories?

A. It is operated exclusively by the National Park Service to ensure local control.
B. It is a private non-profit research group that operates independently of government agencies.
C. It is a consortium of nine different organizations rather than being run primarily by the USGS.
D. It is managed by a rotating committee of university researchers rather than a federal agency.

3. Why does the observatory use buried seismometers for earthquake detection?

A. To protect the equipment from extreme weather conditions in the park.
B. To measure vibrations deep within the Earth's crust more accurately.
C. To achieve the best signal-to-noise ratio by reducing surface noise.
D. To prevent visitors from tampering with the sensitive monitoring devices.

The Yellowstone Volcano Observatory: sample test

Version B

Name _____ Class _____ Date _____ Score _____

1. How does the organizational structure of the Yellowstone Volcano Observatory differ from most other U.S. volcano observatories?

A. It is a private non-profit research group that operates independently of government agencies.
B. It is operated exclusively by the National Park Service to ensure local control.
C. It is a consortium of nine different organizations rather than being run primarily by the USGS.
D. It is managed by a rotating committee of university researchers rather than a federal agency.

2. What is the primary reason the Yellowstone Volcano Observatory is considered a virtual observatory?

A. It does not have a single physical facility or building.
B. It is a digital simulation used for educational purposes.
C. It relies entirely on satellite data to monitor activity.
D. It is managed remotely by scientists located in other states.

3. Why does the observatory use buried seismometers for earthquake detection?

A. To measure vibrations deep within the Earth's crust more accurately.
B. To achieve the best signal-to-noise ratio by reducing surface noise.
C. To protect the equipment from extreme weather conditions in the park.
D. To prevent visitors from tampering with the sensitive monitoring devices.

Answer key — version A

1. **B) It does not have a single physical facility or building.**
   The speaker clarifies that unlike other observatories, YVO does not have a physical building or facility, existing instead as a virtual entity.
2. **C) It is a consortium of nine different organizations rather than being run primarily by the USGS.**
   The speaker explains that while the USGS is the main player in most observatories, YVO is a consortium of nine different organizations.
3. **C) To achieve the best signal-to-noise ratio by reducing surface noise.**
   The speaker notes that burying the seismometers helps minimize noise, allowing for the detection of very small earthquakes.

Answer key — version B

1. **C) It is a consortium of nine different organizations rather than being run primarily by the USGS.**
   The speaker explains that while the USGS is the main player in most observatories, YVO is a consortium of nine different organizations.

2. **A) It does not have a single physical facility or building.**
   The speaker clarifies that unlike other observatories, YVO does not have a physical building or facility, existing instead as a virtual entity.

3. **B) To achieve the best signal-to-noise ratio by reducing surface noise.**
   The speaker notes that burying the seismometers helps minimize noise, allowing for the detection of very small earthquakes.

Made with the free AI quiz generator on sozai.app.