

Unit 9 - Listening - Astronomy

Multiple Choice Questions

1. What does the SETI Project aim to do?
 - a) Send humans to other planets
 - b) Search for radio signals from intelligent beings
 - c) Build spaceships for intergalactic travel
 - d) Measure the number of stars in the Milky Way
2. Why do scientists think there may be intelligent life elsewhere?
 - a) Because they have evidence of spaceships
 - b) Because Earth is the only planet with conditions for life
 - c) Because there are billions of stars in the universe
 - d) Because the Milky Way is the largest galaxy
3. How long would it take a spaceship to reach Alpha Centauri using current technology?
 - a) 10,000 years
 - b) 40,000 years
 - c) 60,000 years
 - d) 100,000 years
4. Why are radio signals preferred for communication with aliens?
 - a) They are simple to decode
 - b) They travel faster than spaceships
 - c) They are the only technology aliens use
 - d) They are easier to send than light signals
5. What do scientists look for in a signal from aliens?
 - a) Words or language

- b) A voicemail saying "Hello"
- c) A strong and ordered sequence
- d) A weak and random noise

Fill in the Blanks (One Word Answer)

1. The SETI Project uses _____ telescopes to detect signals.
2. Alpha Centauri is _____ light years away from Earth.
3. Scientists assume aliens will communicate using _____ signals.
4. The Milky Way contains approximately 200 _____ stars.
5. Radio signals travel at the speed of _____.

True/False Questions

1. The SETI Project looks for signals from spaceships.
2. Each star we see at night could have planets orbiting it.
3. Traveling to Alpha Centauri by spaceship is faster than using radio signals.
4. Radio telescopes listen for ordered sequences in signals.
5. The universe contains fewer galaxies than the Milky Way has stars.

Short Answer Questions

1. How many years would a spaceship take to reach Alpha Centauri?
2. How fast do radio signals travel?
3. What do radio telescopes resemble?