

Aquaculture Beyond Earth?

Aquaculture In Space · Answer Key · 12 Questions

1. Which planet in our solar system is known to have the most moons, making it a potential 'ocean world' if subsurface oceans exist?

- A) Earth
- B) Jupiter
- C) Saturn**
- D) Mars

2. What is the primary element that makes up the vast majority of stars, including our Sun, and is essential for life as we know it?

- A) Oxygen
- B) Carbon
- C) Hydrogen**
- D) Nitrogen

3. The hypothetical concept of 'astro-aquaculture' on other planets often considers the presence of what vital resource for aquatic life?

- A) Liquid methane
- B) Liquid hydrogen
- C) Water**
- D) Carbon dioxide

4. What is the name of the largest moon of Saturn, which is believed to have a subsurface ocean of liquid water?

- A) Europa
- B) Titan**
- C) Ganymede
- D) Callisto

5. The search for extraterrestrial life often focuses on planets within the 'habitable zone' of their stars. What does this zone represent?

- A) The region with the strongest gravity
- B) The region where liquid water could exist on the surface**
- C) The region with the highest radiation
- D) The region furthest from the star

6. What is the common name for the vast cloud of gas and dust in space from which stars and planets are formed?

- A) Nebula**
- B) Galaxy
- C) Black hole
- D) Quasar

7. If aquaculture were to be established on Mars, what would be a significant challenge regarding its atmosphere?

- A) It is too dense
- B) It is primarily composed of oxygen
- C) It is very thin and mostly carbon dioxide**
- D) It is rich in nitrogen

8. What celestial body is known for its prominent rings and is the second-largest planet in our solar system?

- A) Jupiter
- B) Uranus
- C) Neptune
- D) Saturn**

9. The universe is expanding. What is the scientific term for the study of the origin, evolution, and ultimate fate of the universe?

- A) Astronomy
- B) Astrophysics
- C) Cosmology**
- D) Geology

10. Which of Jupiter's moons is considered a prime candidate for having a subsurface ocean of liquid water, making it of interest for potential life?

- A) Io
- B) Europa**
- C) Ganymede
- D) Callisto

11. The process of photosynthesis, crucial for many aquatic organisms, relies on light from a star. Our Sun is an example of a:

- A) Planet
- B) Comet
- C) Star**
- D) Asteroid

12. What is the name of the galaxy that contains our solar system?

- A) Andromeda Galaxy
- B) Triangulum Galaxy
- C) Milky Way Galaxy**
- D) Whirlpool Galaxy