

Biology and the Universe: A North American Perspective

Science · Practice Test · 20 Questions

1. Which planet in our solar system is known as the 'Red Planet' and has been the target of many robotic biological exploration missions by NASA?

- A) Venus
- B) Mars
- C) Jupiter
- D) Saturn

2. What is the primary source of energy for almost all biological life on Earth?

- A) The Moon
- B) The Sun
- C) Mars
- D) Jupiter

3. Which North American space agency is responsible for researching the effects of space travel on human biology?

- A) ESA
- B) JAXA
- C) NASA
- D) Roscosmos

4. What celestial body provides the gravitational pull responsible for the tides that affect coastal biological ecosystems in North America?

- A) The Sun
- B) Mars
- C) The Moon
- D) Venus

5. Which gas, vital for the survival of aerobic biological organisms, is found in the Earth's atmosphere?

- A) Oxygen
- B) Hydrogen
- C) Helium
- D) Methane

6. Which planet is the largest in our solar system?

- A) Earth
- B) Mars
- C) Jupiter
- D) Neptune

7. What is the name of the galaxy that contains our Solar System and the planet Earth?

- A) Andromeda
- B) Milky Way
- C) Sombrero
- D) Whirlpool

8. Which organ in the human body is most affected by microgravity, leading to muscle and bone loss during long-term space missions?

- A) Brain
- B) Stomach
- C) Musculoskeletal system
- D) Liver

9. What do plants absorb from the atmosphere to perform photosynthesis, a process essential for life on Earth?

- A) Nitrogen
- B) Carbon dioxide
- C) Neon
- D) Argon

10. Which planet is closest to the Sun?

- A) Venus
- B) Earth
- C) Mercury
- D) Mars

11. What is the study of the possibility of life existing elsewhere in the universe called?

- A) Geology
- B) Astrobiology
- C) Meteorology
- D) Oceanography

12. Which planet is often called Earth's 'sister planet' due to its similar size and density?

- A) Mars
- B) Venus
- C) Jupiter
- D) Saturn

13. How many planets are in our solar system?

- A) 7
- B) 8
- C) 9
- D) 10

14. What layer of the Earth's atmosphere protects biological life from harmful ultraviolet radiation from the Sun?

- A) Troposphere
- B) Ozone layer
- C) Mesosphere
- D) Thermosphere

15. Which dwarf planet was famously reclassified in 2006?

- A) Ceres
- B) Eris
- C) Pluto
- D) Haumea

16. What force keeps biological organisms on the surface of the Earth?

- A) Magnetism
- B) Gravity
- C) Friction
- D) Inertia

17. What is the name of the star at the center of our solar system?

- A) Proxima Centauri
- B) Polaris
- C) The Sun
- D) Betelgeuse

18. Which planet has the most extensive and visible ring system?

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

19. What is the process called when plants convert sunlight into chemical energy?

- A) Respiration
- B) Photosynthesis
- C) Digestion
- D) Fermentation

20. Which instrument is used by scientists to observe distant stars and galaxies?

- A) Microscope
- B) Telescope
- C) Stethoscope
- D) Barometer