

Chapter – 13 | Our Home: Earth, a Unique Life Sustaining Planet

QUIZ-01

1. Why is Earth called a unique planet?

- A. It supports life
- B. It has no atmosphere
- C. It is the hottest planet
- D. It has no water (A)

Explanation: Earth has water, air, suitable temperature, and other conditions needed for life.

2. Which zone allows water to remain liquid?

- A. Ozone zone
- B. Habitable zone
- C. Magnetic zone
- D. Crust zone (B)

Explanation : The habitable or Goldilocks zone has the right temperature for liquid water.

3. Why is Venus hotter than Mercury?

- A. It is closer to the Sun
- B. It has no atmosphere
- C. Its thick atmosphere traps heat
- D. It has liquid water (C)

Explanation: Venus has a thick carbon dioxide atmosphere that causes a strong greenhouse effect.

4. What protects Earth from harmful UV rays?

- A. Ozone layer
- B. Soil
- C. Hydrosphere
- D. Moon (A)

Explanation: The ozone layer blocks harmful ultraviolet rays from the Sun.

5. Earth's magnetic field protects us from:

- A. Rainfall
- B. Solar wind and cosmic rays
- C. Soil erosion
- D. Ocean waves (B)

Explanation : Earth's magnetic field acts like a shield against harmful high-energy particles.

6. The hydrosphere consists of:

- A. Only rocks
- B. All water on Earth
- C. Only air
- D. Only living beings (B)

Explanation: The hydrosphere includes oceans, rivers, lakes, groundwater, and other water bodies.

7. Which process keeps life continuing on Earth?

- A. Reproduction
- B. Pollution
- C. Fossil fuel burning
- D. Soil erosion (A)

Explanation : Reproduction produces new individuals and maintains continuity of life.

8. In asexual reproduction, offspring are:

- A. Exact copies of one parent
- B. Always different from parents
- C. Formed by two parents
- D. Formed only in birds (A)

Explanation : Asexual reproduction involves one parent and produces nearly identical offspring.

9. In flowering plants, fertilisation forms a:

- A. Zygote
- B. Cloud
- C. Rock
- D. Pollen grain (A)

Explanation : Fertilisation occurs when male and female gametes combine to form a zygote.

10. Climate change, biodiversity loss, and pollution are together called:

- A. Green Revolution
- B. Triple planetary crisis
- C. Goldilocks zone
- D. Geodiversity (B)

Explanation : These three major environmental challenges are known as the triple planetary crisis.