

## CHAPTER-13 | Our Home: Earth, a Unique Life Sustaining Planet

### QUIZ PART-02

1. Which is the hottest planet in the solar system?

- A. Mercury
- B. Venus
- C. Mars
- D. Jupiter (B)

**Explanation :** Venus is the hottest planet because of its thick atmosphere.

2. Venus is hotter than Mercury mainly because:

- A. It is larger
- B. It rotates faster
- C. It has a thick CO<sub>2</sub> atmosphere
- D. It is closer to Earth (C)

**Explanation :** Carbon dioxide traps heat through the greenhouse effect.

3. The atmosphere of Venus is mainly made of:

- A. Oxygen
- B. Nitrogen
- C. Hydrogen
- D. Carbon dioxide (D)

**Explanation :** Venus has a thick atmosphere rich in carbon dioxide.

4. Heat trapping by gases is called:

- A. Reflection
- B. Evaporation
- C. Greenhouse effect
- D. Condensation (C)

**Explanation :** Greenhouse gases trap heat in the atmosphere.

5. Which gas mainly causes the greenhouse effect on Venus?

- A. Oxygen
- B. Carbon dioxide
- C. Helium
- D. Nitrogen (B)

**Explanation :** CO<sub>2</sub> absorbs and traps heat radiation.

6. Planets closer to the Sun are usually:

- A. Smaller
- B. Colder
- C. Hotter
- D. Rocky only (C)

**Explanation :** They receive more solar energy.

7. Earth's greenhouse effect helps to:

- A. Freeze oceans
- B. Keep Earth warm
- C. Remove oxygen
- D. Stop rainfall (B)

**Explanation :** It maintains a suitable temperature for life.

8. Plant greenhouses trap heat because:

- A. Plants release heat
- B. Glass absorbs sunlight only
- C. It is a closed space
- D. Soil becomes hot (C)

**Explanation :** Warm air cannot escape easily from a closed greenhouse.

9. Which statement about Venus is correct?

- A. It has no atmosphere
- B. It is the coldest planet
- C. It experiences a strong greenhouse effect
- D. It has liquid oceans (C)

**Explanation :** Venus traps enormous heat due to its atmosphere.

10. Which planet is second from the Sun?

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

**Explanation :** Venus is the second planet from the Sun.