

# Composition of Atmosphere

1. What are the causes of carbobdioxide in the atmosphere?
  - A. Due to industrilization
  - B. Emission of GHGs from vehicals
  - C. Burning fossil fuel & Wood/Deforestation
  - D. All of them
  
2. How much percent of carbon dioxide is present in the atmosphere?
  - A. 0.05%
  - B. 0.09%
  - C. 0.03%
  - D. 0.07%
  
3. Increase in the volume of carbon dioxide for the past few decades is mainly due to
  - (a) deforestation.
  - (b) climate change.
  - (c) atmospheric composition.
  - (d) burning of fossil fuels.
  
4. What envelopes the earth all round?
  - (a) Hydrosphere
  - (b) Lithosphere
  - (c) Atmosphere
  - (d) Biosphere
  
5. Which gas is opaque to the outgoing terrestrial radiation?
  - (a) Dust Particles
  - (b) Ozone
  - (c) Carbon dioxide
  - (d) Water Vapour
  
6. The uppermost layer of the atmosphere is
  - (a) Mesosphere.
  - (b) Exosphere.
  - (c) Ionosphere.
  - (d) Stratosphere.
  
7. Excess carbon dioxide in the atmosphere due to pollution will cause
  - (a) Earth's temperature to rise.
  - (b) Earth's temperature to fall.
  - (c) Decrease in weather phenomenon.
  - (d) Ozone layer to become thicker.

8. Which zone separate the troposphere from stratosphere?

- (a) Mesopause.
- (b) Tropopause
- (c) Ionopause.
- (d) Stratopause.

9. Earth absorbs more

- (a) Humidity.
- (b) Heat.
- (c) Gases.
- (d) Water Vapour.

10. Which sphere lies above the stratosphere?

- (a) Mesosphere.
- (b) Exosphere.
- (c) Ionosphere.
- (d) None of the above.

11. Which of the following gases absorbs ultra violet rays?

- (a) Carbon Dioxide
- (b) Neon
- (c) Ozone
- (d) Nitrogen

12. Which one of the following gases constitute the major portion of atmosphere?

- (a) Oxygen
- (b) Nitrogen
- (c) Argon
- (d) Carbon dioxide

13. It is an element of atmosphere

- (a) Tides.
- (b) Pressure.
- (c) Water currents.
- (d) Waves.

14. The radiations that heat earth's atmosphere, comes from the

- (a) Sun
- (b) Earth
- (c) Ionosphere
- (d) Sun and Earth

15. By volume, dry air contains

- (A) 0.63% of argon
- (B) 0.73% of argon
- (C) 0.93% of argon
- (D) 1.53% of argon

16. The study of Earth's atmosphere and its processes is called

- (A) aerology
- (B) geology
- (C) meteorology
- (D) astronomy

17. The average temperature of the atmosphere at Earth's surface is

- (A) 10°C
- (B) 14°C
- (C) 20°C
- (D) 25°C

18. Which is the second most abundant gas in Earth's atmosphere?

- (A) Hydrogen
- (B) Oxygen
- (C) Nitrogen
- (D) Carbon di oxide

## **Atmospheric Layer and Ozone Layer**

1. The atmosphere of earth is retained by

- (A) earth's gravity
- (B) earth's core
- (C) both (A) and (B)
- (D) none of the above

2-The atmosphere of Earth protects life on Earth

- (A) by creating pressure allowing for liquid water to exist on the earth's surface
- (B) by absorbing ultraviolet radiations
- (C) by warming the surface through greenhouse effect
- (D) all of the above

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- (A) aerology
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4-The Karman line, the boundary between Earth's atmosphere and outer space, is at a height of

- (A) 50 km
- (B) 100 km
- (C) 150 km
- (D) 200 km

5-The Exosphere lies from

- (A) 12 to 50 km
- (B) 50 to 80 km
- (C) 80 to 700 km
- (D) 700 to 10,000 km

6-Which of the following are parts of an atmosphere

- (A) Troposphere
- (B) Stratosphere
- (C) Thermosphere
- (D) All of the above

7-Which of the following contains most of the satellites orbiting Earth

- (A) Troposphere
- (B) Stratosphere
- (C) Thermosphere
- (D) Exosphere

8-Following is also referred to as exobase.

- (A) Troposphere
- (B) Stratosphere
- (C) Thermosphere
- (D) Exosphere

9-The highest layer that can be accessed by jet powered aircraft.

- (A) Troposphere
- (B) Stratosphere
- (C) Mesosphere
- (D) Thermosphere

10-Which of the following contains roughly 80% of the Earth's atmosphere

- (A) Troposphere
- (B) Stratosphere
- (C) Mesosphere
- (D) Thermosphere

11-The ozone layer is contained within the

- (A) Troposphere
- (B) Stratosphere
- (C) Mesosphere
- (D) Thermosphere

12. Which atmospheric layer contains Ions and helps in wireless communication?

- (A) Mesosphere
- (B) Thermosphere
- (C) Troposphere
- (D) Stratosphere

13. Which is the highest layer of the atmosphere in which Meteors burn up after entering Earth's atmosphere?

- (A) Troposphere
- (B) Stratosphere
- (C) Mesosphere
- (D) Thermosphere

14. Which layer of atmosphere is used for telecommunication?

- (A) Troposphere
- (B) Thermosphere
- (C) Stratosphere
- (D) Ionosphere

15. Ozone depletion is greatest near:

- (A) tropics
- (B) equator
- (C) poles
- (D) oceans

16. The layer of very rare air above the mesosphere is called the \_\_\_\_\_.

- (A) troposphere
- (B) stratosphere
- (C) exosphere
- (D) thermosphere

## **Answers key**

### **Composition of Atmosphere**

- 1.(C)    2.(C)    3.(D)    4.(C)    5.(C)    6.(B)    7.(A)    8.(B)    9.(B)    10.(A)
- 11.(C)    12.(B)    13.(B)    14.(B)    15.(C)    16.(A)    17.(B)    18.(B)

## **Atmospheric Layer and Ozone Layer**

- |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|
| 1.(A)  | 2.(D)  | 3.(A)  | 4.(B)  | 5.(D)  | 6.(D)  | 7.(D)  |
| 8.(C)  | 9.(B)  | 10.(A) | 11.(B) | 12.(B) | 13.(C) | 14.(D) |
| 15.(C) | 16.(D) |        |        |        |        |        |