



# Chemistry of the Atmosphere

## Multiple Choice Questions

### Set 5

You may use a periodic table to help you answer these questions.

Tick **one** box.

1. For how long have the proportions of gases in the present-day atmosphere of the Earth been approximately consistent?
  - A. 200 years
  - B. 2000 years
  - C. 2 000 000 years
  - D. 200 000 000 years
2. Which gas was **not** present in the early atmosphere of the Earth?
  - A. carbon dioxide
  - B. nitrogen
  - C. oxygen
  - D. water vapour
3. Which gas needed to be present in the atmosphere to enable animals to evolve?
  - A. carbon dioxide
  - B. nitrogen
  - C. oxygen
  - D. water vapour
4. The percentage of which atmospheric gas has decreased because of photosynthesis?
  - A. carbon dioxide
  - B. nitrogen
  - C. oxygen
  - D. water vapour
5. Which statement about greenhouse gases is correct?
  - A. greenhouse gases absorb all the radiation from the Sun
  - B. greenhouse gases absorb long wavelength (infrared) radiation from the surface of the Earth
  - C. greenhouse gases are all toxic
  - D. greenhouse gases are only produced by the combustion of fossil fuels



6. Which of these activities has **not** been linked to an increase in the atmospheric levels of greenhouse gases?
- A. cattle breeding
  - B. deforestation
  - C. disposal of waste in landfill sites
  - D. generation of electricity through nuclear power
7. What do most scientists believe is the major cause of global climate change?
- A. hunting of endangered species
  - B. increased frequency and severity of storms
  - C. overfishing of the oceans
  - D. rising average global temperature
8. Which mode of transport has the lowest greenhouse gas emissions?
- A. aeroplane
  - B. bus
  - C. car
  - D. walking
9. A student used a Bunsen burner to heat some water in a beaker. After the experiment, the student noticed a black residue on the bottom of the beaker. Which conclusion is correct?
- A. complete combustion of the gas from the Bunsen burner occurred
  - B. incomplete combustion of the gas from the Bunsen burner occurred
  - C. the beaker reacted with oxygen in the air when heated
  - D. the gas from the Bunsen burner was contaminated
10. Which pollutant is toxic due to it affecting the ability of red blood cells to carry oxygen?
- A. carbon monoxide
  - B. carbon particulates
  - C. oxides of nitrogen
  - D. sulfur dioxide