



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 ☐