Chemistry of the Atmosphere
Multiple Choice Questions
Set 2

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

Tick **one** box.

1. Approximately what proportion of the present-day atmosphere is oxygen?
   - A. 20% ☐
   - B. 40% ☐
   - C. 60% ☐
   - D. 80% ☐

2. What happened to the large amount of water vapour that is thought to have been present in the early atmosphere of the Earth?
   - A. it condensed to form oceans ☐
   - B. it drifted out into space ☐
   - C. it still forms a large proportion of the atmosphere ☐
   - D. it was absorbed by plants ☐

3. Which process first released oxygen into the atmosphere?
   - A. combustion ☐
   - B. decomposition ☐
   - C. photosynthesis ☐
   - D. respiration ☐

4. Which process has removed carbon dioxide from the atmosphere over time?
   - A. combustion ☐
   - B. decomposition ☐
   - C. photosynthesis ☐
   - D. respiration ☐

5. Which of the following is **not** a greenhouse gas?
   - A. carbon dioxide ☐
   - B. hydrogen ☐
   - C. methane ☐
   - D. water vapour ☐

6. Which of the following would indicate that evidence of global climate change is reliable?
   - A. it contains evidence from a single source ☐
   - B. it contains a range of opinions ☐
   - C. it has been peer-reviewed ☐
   - D. it is complex and difficult to understand ☐

7. Which of these is **not** a potential effect of global climate change?
   - A. increased frequency and severity of storms ☐
   - B. increased occurrence of drought ☐
   - C. rising atmospheric temperatures ☐
   - D. rising sea levels ☐

8. How could a person reduce their carbon footprint?
   - A. eat less meat ☐
   - B. recycle waste ☐
   - C. walk or cycle when making a short journey ☐
   - D. all of the above ☐

9. What type of reaction would produce carbon monoxide or carbon particulates?
   - A. carbon capture ☐
   - B. complete combustion ☐
   - C. incomplete combustion ☐
   - D. thermal decomposition ☐

10. What problem is caused by increased levels of sulfur dioxide in the atmosphere?
    - A. acid rain ☐
    - B. deforestation ☐
    - C. global dimming ☐
    - D. global warming ☐