

# 4.2 Carbon Cycling & Climate Change

# **Question Paper**

Course	DP IB Biology
Section	4. Ecology
Topic	4.2 Carbon Cycling & Climate Change
Difficulty	Easy

Time allowed: 10

Score: /5

Percentage: /100



 $Head to \underline{save my exams.co.uk} for more a we some resources$ 

#### Question 1

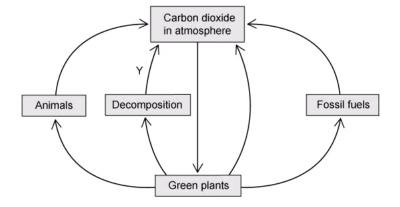
Which of the following gases is **not** a greenhouse gas?

- A. Methane
- B. Sulfur dioxide
- C. Carbon dioxide
- D. Watervapour

[1 mark]

### Question 2

The carbon cycle is represented by the diagram below.



Identify process Y.

- A. Photosynthesis
- B. Combustion
- C. Respiration
- D. Fossilisation

[1 mark]

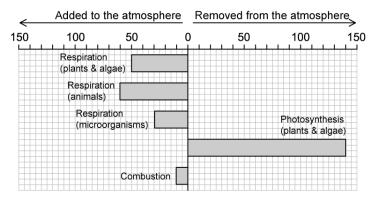


Head to <u>savemy exams.co.uk</u> for more awe some resources

#### Question 3

What is the total mass of carbon released into the atmosphere from respiration per year?

Mass of carbon in billions of tonnes per year



- A. 60 billion tonnes
- B. 148 billion tonnes
- C. 150 billion tonnes
- D. 140 billion tonnes

[1 mark]

#### Question 4

A climate change sceptic made the following statement:

'There is no consensus amongst scientists that climate change is real, global warming is a natural and normal phenomenon which has occurred at other points in history'

Which of the following opposes the idea that global warming is a natural phenomenon?

- A. The idea that many factors contribute towards global climate
- B. Data produced by companies involved in global fossil fuel supply shows decreasing greenhouse gas production
- C. Scientific research which links the combustion of fossil fuels with global warming
- D. Published data which shows that rates of global warming have not been consistent over the last 50 years

[1 mark]



Head to <u>savemy exams.co.uk</u> for more awe some resources

## Question 5

Which process results in the production of methane gas?

- A. Combustion of fossil fuels
- B. Livestock farming
- C. Deforestation
- D. Ocean acidification

[1 mark]