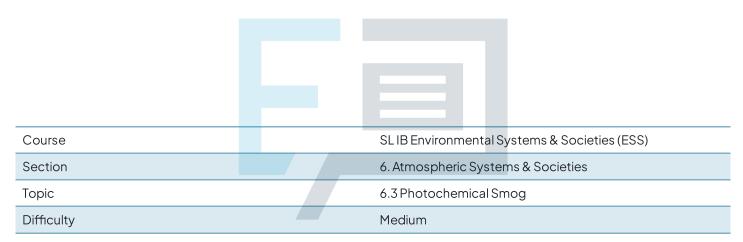


6.3 Photochemical Smog

Question Paper



Exam Papers Practice

To be used by all students preparing for SL IB Environmental Systems & Societies (ESS) Students of other boards may also find this useful



Question 1

Explain the processes through which the combustion of fossil fuels contributes to the formation of photochemical smog.

[3 marks]

Question 2

Outline $\textbf{four} \ \text{effects of tropospheric ozone and smog}.$



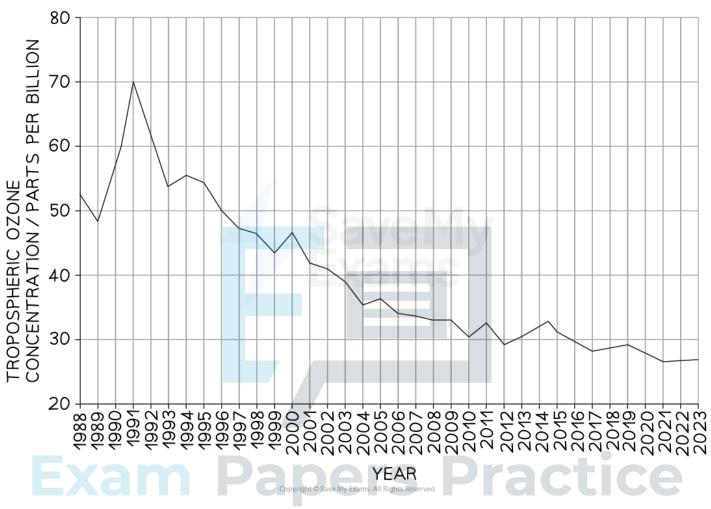
[4 marks]

Exam Papers Practice



Question 3a

The graph below shows global tropospheric ozone levels between 1988 and 2023.



Suggest possible reasons for the overall trends in global tropospheric ozone levels shown by the graph.

[4 marks]



Question 3b

Use the figure in part (a) to calculate the average annual decrease in tropospheric ozone concentration (in parts per billion) between 1991 and 2010. Show your working.

[2 marks]

Question 4

List **four** possible air pollution management strategies that can be used to reduce tropospheric ozone and photochemical smog.



[4 marks]

Exam Papers Practice