

**AQA, OCR, Edexcel**

**GCSE Science**

# **GCSE Biology**

**Air Pollution Answers**

Name:

**M M E**

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Total Marks: /20

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Q1: What is the main source of air pollution?

A= Burning fossil fuels

(1 mark)

Q2: Explain what acid rain is.

A= 1 mark for each of the following points:

- A build up of sulphur dioxide
- Dissolved in rain water

(2 marks)

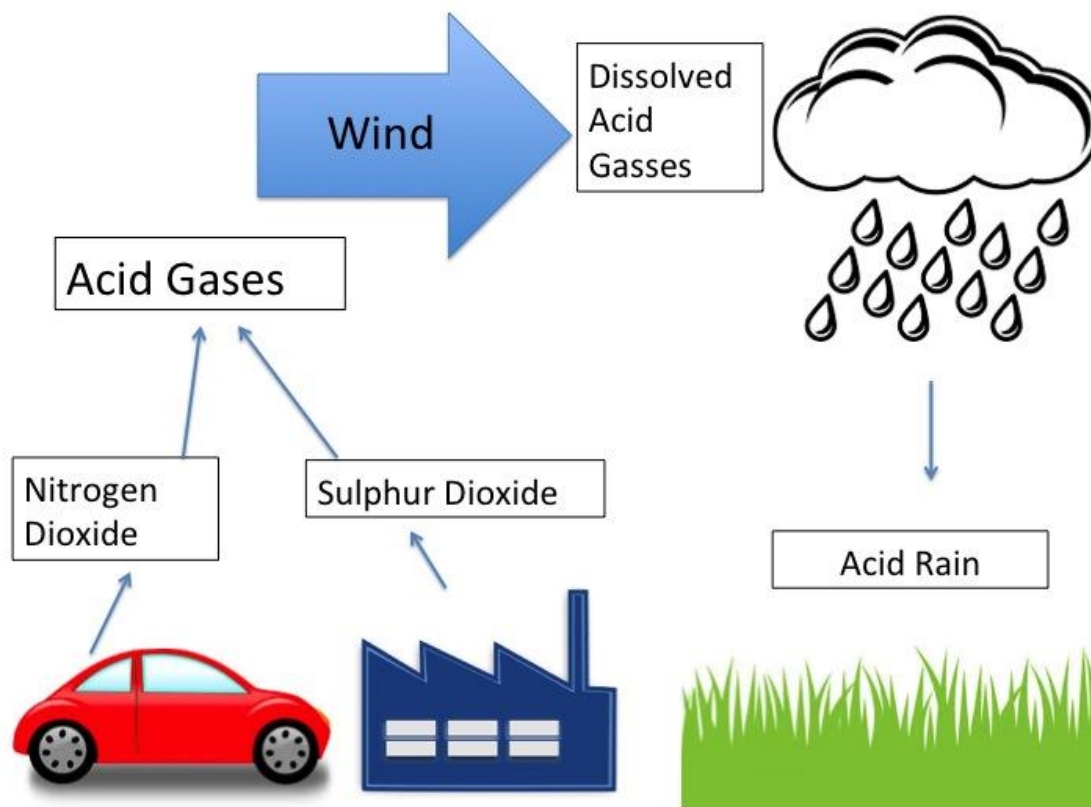
Q3: Describe the effects of acid rain seen in ecosystems.

A= Marks awarded for any 2 of the following:

- Pollute water bodies – e.g. lakes/streams
- High levels – Kill animals / Plants
- Reduce species numbers

(2 marks)

Q4: Fill in the missing labels in the following diagram to show the process of acid rain.



A= 1 mark for each correct label

(5 marks)

Q5: What is the role of the catalytic converter in a car?

A= Remove polluting gases

(1 mark)

Q6: Power stations are trying to reduce their pollution levels. The polluting gasses are 'scrubbed' before leaving the chimneys. What is the main product removed that industries can go on to use?

A= Sulphuric acid

(1 mark)

Q7: Why are biofuels less polluting to the air than fossil fuels?

A= only by-products are carbon dioxide and water

(1 mark)

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Q8: i) Using the graph below which country has made the most improvement?

A= USA

(1 mark)

ii) Which country has dramatically increased their sulphur emissions?

A= China

(1 mark)

iii) Give one possible reason for the increase seen in the sulphur emissions for china?

A= Increasing industry

(1 mark)

Q9: What can the dimming effect cause and why?

A= 1 mark for effect caused and 1 mark for reason why:

- Decrease of earth's temperature
- Reflects sunlight back from atmosphere

(2 marks)

Q10: Explain what the term smog means?

A= Haze of small particles/ acidic gases

(1 mark)

Q11: How has Beijing tried to combat the smog levels in the city?

A= Accept any of the following:

- Reduced number of cars on the road
- Shut down factories

(1 mark)