

# THE ATMOSPHERE 5

## MARK SCHEME

### Q1.

Question	Answer	Extra information	Marks
(a)	3		1
(b)	2		1
(c)	3		1
(d)	3		1
Total marks			4

### Q2.

Question	Answer	Extra information	Marks
A	1		
B	4		
C	2		
D	3		
Total marks			4

### Q3.

Question	Answer	Extra information	Marks
A	4		
B	2		
C	1		
D	3		
Total marks			4

### Q4.

Question	Answer	Extra information	Marks
A	4		
B	1		
C	3		
D	2		
Total marks			4

**Q5.**

Question	Answer	Extra information	Marks
(a)	4		1
(b)	1		1
(c)	1		1
(d)	3		1
Total marks			4

**Q6.**

Question	Answer	Extra information	Marks
(a)(i)	15%	ignore units	1
(ii)	water (vapour) / steam	allow H <sub>2</sub> O / OH <sub>2</sub> / hydrogen oxide	1
(iii)	sulfur in petrol / crude oil (reacts with oxygen)	it = sulfur dioxide	1
(iv)	because nitrogen and oxygen (are in the air and) react	allow nitrogen and oxygen burn accept nitrogen + oxygen → nitrogen oxide or symbol equation ignore air	1
	at high temperature (inside a petrol engine)	allow heat/hot (engine)	1
(b)	because carbon dioxide / it causes global warming or because carbon dioxide / it has an impact on oceans	allow because carbon dioxide/it causes greenhouse effect / climate change	1
	because this carbon dioxide / carbon / it was 'locked up' (in fossil fuels) or because the percentage/amount of carbon dioxide/it in the atmosphere is increasing		1
Total marks			7

**Q7.**

Question	Answer	Extra information	Marks
	<b>Environmental</b> any <b>one</b> from: less mining / quarrying (of bauxite) less landfill space needed / used	allow loss of habitat / less qualified noise pollution allow less red mud / waste	1

	less use of fossil fuels / energy less carbon dioxide produced <b>Ethical or social</b> any <b>one</b> from: saves resources creates (local) employment more people aware of the need for recycling	allow using resources more than once if answers reversed and both correct award 1 mark allow less qualified noise pollution if not given in environmental	1
Total marks			2

**Q8.**

Question	Answer	Extra information	Marks
(a)	1		1
(b)	1		1
(c)	2		1
(d)	3		1
Total marks			4

**Q9.**

Question	Answer	Extra information	Marks
(a)	1		1
(b)	2		1
(c)	2		1
(d)	1		1
Total marks			4