## Elemental & Environmental ChemistryAssignment 3

1.	State aerobic and anaerobic products of decomposition of organic matter containing: (a) Carbon (b) Nitrogen (c) Phosphorus (d) Sulphur	/2 /2 /2 /2
2.	(a) Describe the process of photoe without	/2
	<ul><li>(a) Describe the process of photosynthesis.</li><li>(b) Write an equation for the process of aerobic respiration involving glucose.</li></ul>	/2
3.	Describe the operation of the nitrogen cycle, including equations, and covering at least the following points: <ul> <li>lightning</li> <li>nitrogen-fixing bacteria</li> <li>decay</li> </ul>	)
	• decay	/5
4.	<ul><li>(a) Describe one fertiliser manufacture process, including at least one equation.</li><li>(b) Explain why plants tend to grow better when a fertiliser is added to the soil.</li></ul>	/3 /2
5.	<ul> <li>(a) Explain how the greenhouse effect works.</li> <li>(b) Discuss why the greenhouse effect is necessary for life on Earth and explain the consequences for the environment of the enhanced greenhouse effect.</li> <li>(c) Discuss how human actions could enhance the greenhouse effect and how the enhance greenhouse effect could impact human society.</li> </ul>	/3 /3 ced /3
	TOTAL	/31