CH3041 Tutorial 8 Air, Water and ASS Pollution

- 1. **Relative warming potentials** are used to assess the importance of the various greenhouse gases that are introduced into the atmosphere in large quantities through human activity.
 - List three greenhouse gases and explain how they operate to enhance the greenhouse effect.
 - List the RWPs for the gases you have chosen and explain why they differ for each gas.

- 2. Describe the major chemical processes that result in the formation of a "**London'** smog, include the key compounds and the physical conditions required for such a smog to form.
 - What measurements would you expect to carry out to declare a smog event?

3. Explain the function of a three-way catalytic converter in reducing **photochemical smog**.

| 4. | The Barron Catchment has been shown to carry phosphate and nitrate pollutants on occasion at levels above the ANZ freshwater guidelines. Explain the origin of enhanced levels of these pollutants in the Barron catchment, what the limits are and how these nutrient levels are normally measured. |
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| 5. | Detail the chemistry involved in the formation of actual acid sulphate soil . • How would you determine the presence of an ASS soil on a site. |
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