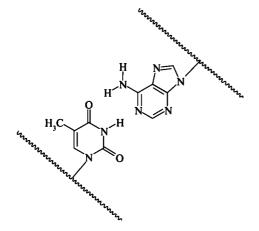
NAME____

Year 12 Chemistry Environmental Chemistry Formative Test

1. DNA is found in all living cells. The diagram below shows a section of a DNA molecule.



(a) Identify one product of the aerobic decomposition of DNA.	/1
(b) Identify one product of the anaerobic decomposition of DNA.	/1
(c) Living cells can obtain energy by aerobic respiration.	
Write an equation for aerobic respiration.	/2

2.

(a) Describe how oxides of nitrogen are formed as a consequence of the combustion of petrol in mot	tor
vehicles. Include one equation in your answer.	/4
(b) Identify one environmental problem, other than acid rain, that may result from the presence of oxides of nitrogen in the troposphere.	/1
(c) Explain whether nitrogen (II) oxide is a primary or secondary pollutant.	/2
(d) Describe how catalytic converters reduce the quantities of nitrogen oxides generated by cars.	/2
(e) Explain how an increase in the amounts of nitrogen oxides in the atmosphere could lead to an increase in the amounts of nutrients available to plants.	/3

3.

- (a) Describe how greenhouse gases maintain a steady temperature in the Earth's atmosphere. /3
- (b) Human actions are increasing the level of greenhouse gases in the atmosphere. It is possible that this could lead to an increase in the average temperature of the Earth's atmosphere.
 State the name of this effect.
- (c) Describe one harmful consequence that this increase in average temperature is predicted to have for the human population. /2

/1
/2
/3
/2
/2
/3
/1
/1 /1

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TOTAL /40
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