2002 HIGHER SCHOOL CERTIFICATE EXAMINATION Chemistry

Section I – Part B (continued)

One	estion 25 (6 marks)	Marks
Que	Stion 25 (O marks)	
(a)	What is the systematic name of the CFC in the diagram?	1
	Cl Cl	
	(hlovo fluvo Carbon	
(b)	Identify the bonding within ozone, using a Lewis electron-dot diagram.	2

(c) Discuss how CFCs damage the ozone layer, using relevant equations.

(f.s. damage the 0.20 ne by in the following way the Clark veach with 03 to form Cl + 03 -> Cl0 + 02

The Cl0 then reach again with oxygen which forms

Cl0 + 0 -> Zl + 02 Allowing the Cl Gnether Chance to grab a 03, repeating the process meaning the Ozone contoniuly demolishing and distroying the Ozone contoniuly demolishing and distroying the