

## Chemistry

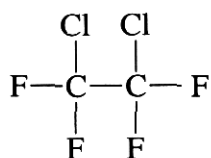
## Section I – Part B (continued)

Marks

## Question 25 (6 marks)

- (a) What is the systematic name of the CFC in the diagram?

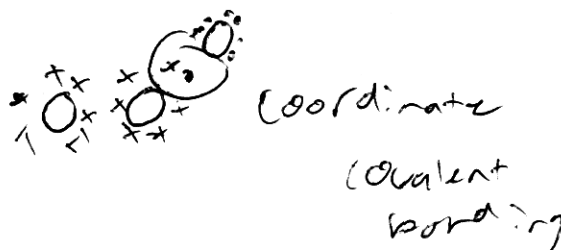
1



1,2-difluoro-1,2-dichloroethane

- (b) Identify the bonding within ozone, using a Lewis electron-dot diagram.

2



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

3

CFCs are able to break up  $\text{O}_3$  and stop it from reforming. A single molecule of CFC can create a massive amount of problems and hence create so-called "holes" in the ozone layer.