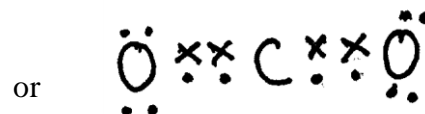
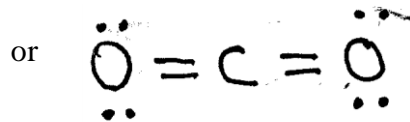
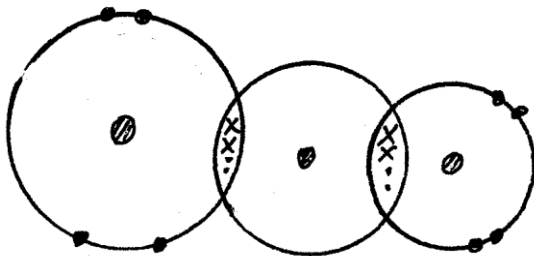


STRUCTURE AND BONDING

MARKING SCHEME

1.



Award 2 marks for each atom having an octet structure

- 2.a) i) C (1/2) Because it conducts electricity in liquid and solid state (1/2)
ii) F (1/2) because it has very high melting point and boiling point yet it does not conduct electricity in solid and liquid state (1/2)
b) It consists of two allotropes(1)

- 3.. (a) S ✓ 1/2 – If has high melting point ✓ 1/2 and boiling point and conduct in aqueous solution.
(b) P ✓ 1/2 and Q ✓ 1/2 – Their melting point are lower than room temperature. ✓
1
(c) R ✓ 1/2 – The boiling point is lower ✓ 1/2 than room temperature.

4. (a)

