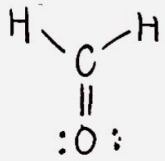
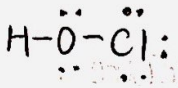
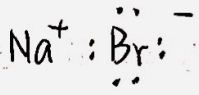
Exercise 1.



(i).



(ii)

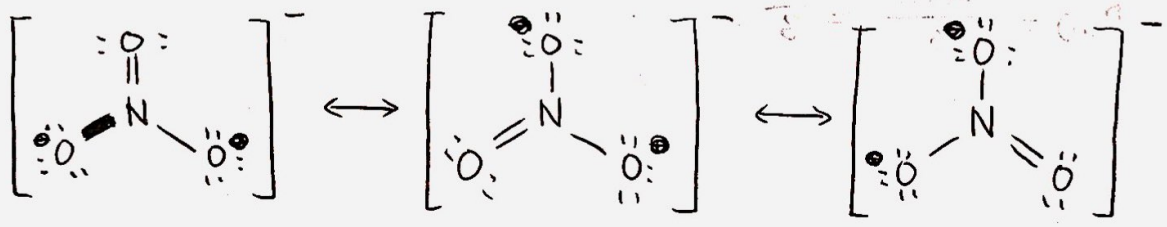


(iii)

Exercise 2.

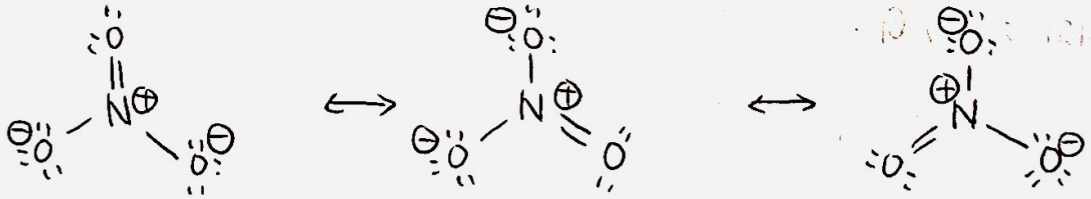
(1). (π_3^4).

(2).

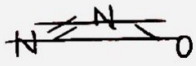


(Octet Rule)

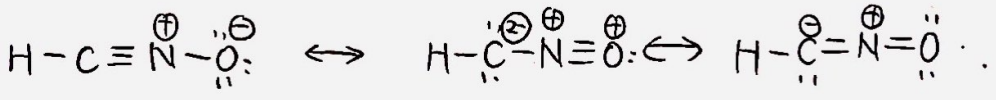
or



Exercise 3.

 (i)

more stable.

(ii) 

must stable.

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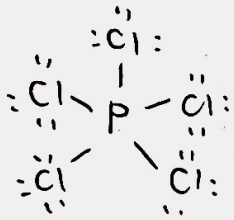
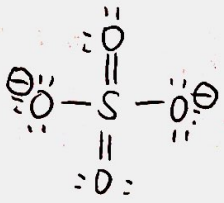
exercise 4.



(i)

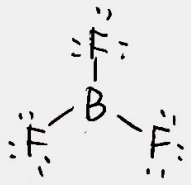
$10e^-$

$[PCl_4]^+[PCl_6]^-$.



(ii)

$12e^-$



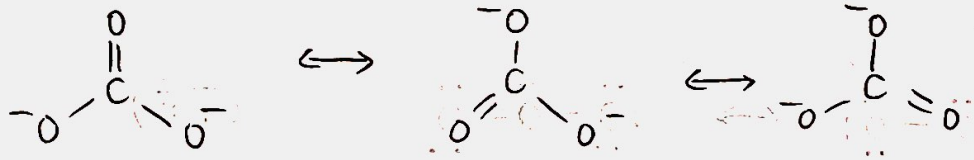
(iii)

$6e^-$

Exercise 5. B.O ⇒ Write resonance structure:

(i) $O=C=O$ B.O = $\frac{2+2}{2} = 2$.

(ii)



$$B.O = \frac{2+1+1}{3} = \frac{4}{3}.$$

Exercise 6.

Polar : A, B, D, E, F

Non-polar : C, G.

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