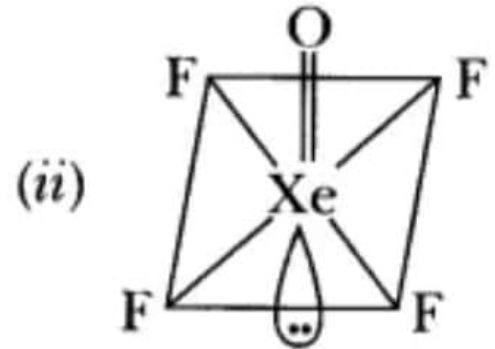
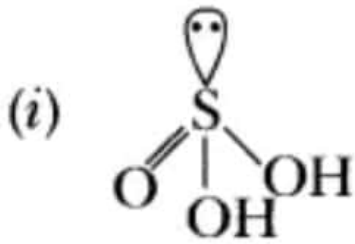


Write the structures of the following molecules: (i) H_2SO_3 (ii) XeOF_4

Answer:

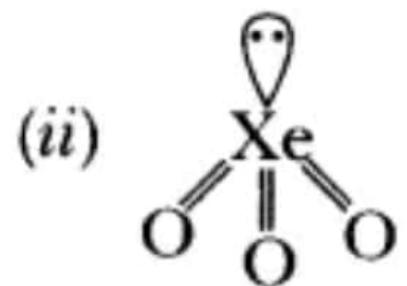
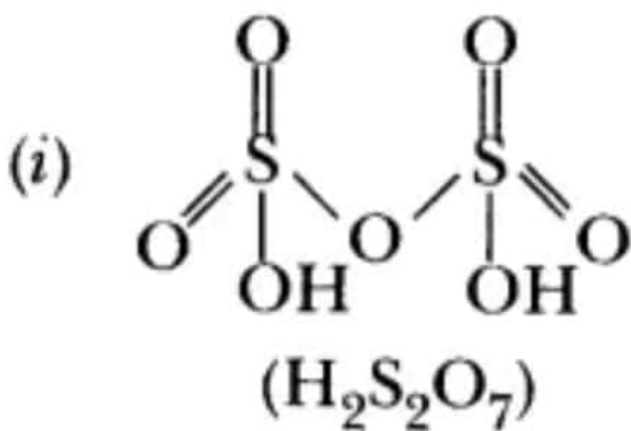


Question 9:

Write the structures of the following:

(i) $\text{H}_2\text{S}_2\text{O}_7$ (ii) XeO_3

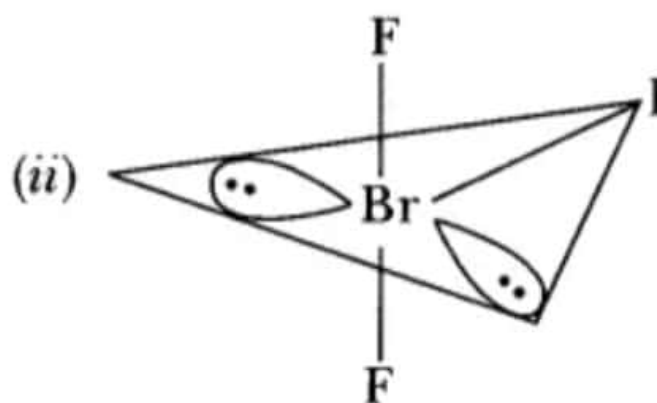
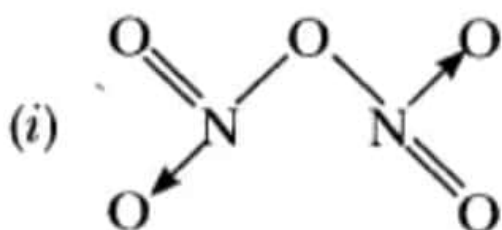
Answer:



Write the structures of the following:

(i) N_2O_5 (ii) BrF_3

Answer:



Question 11:

Give reasons for the following:

- (i) N_2 is less reactive at room temperature.
- (ii) H_2Te is the strongest reducing agent amongst all the hydrides of group 16-elements.
- (iii) Helium is used in diving apparatus as a diluent for oxygen.

Answer:

- (i) It is due to presence of triple bond which has high bond dissociation enthalpy.
- (ii) H_2Te has longest bond length which has lowest bond dissociation enthalpy.
- (iii) It is because helium is less soluble than N_2 in blood and does not cause pain.