Quiz 10.1 – Molecular Shapes and Symmetry Groups

Name:	
Symmetry Operations	
List and briefly describe all symmetry operations	
	binations of other operators. For example, three consecutive as formation as i . There is also one \emph{single} operator which is
Symmetry Groups	
Assign each molecule or ion to a symmety point gro	oup
o CO ₂	∘ CH ₄
$\circ~\mathrm{NO_3^-}$	\circ NH $_3$
$\circ \ \operatorname{PCl}_5$	o SF ₄
\circ SF $_6$	\circ ClF ₅
$\circ XeF_4$	\circ C ₂ H ₆ (staggered conformation)
o CH ₂ CCH ₂	$\circ C_{10}H_8$ (naphthalene)