

**Marks**  
**6**

- Complete the following table.

Formula	Geometry of complex	Ligand donor atom(s)
$[\text{Zn}(\text{OH})_4]^{2-}$		
$[\text{CoCl}(\text{NH}_3)_5]\text{SO}_4$		
$\text{K}_4[\text{Fe}(\text{CN})_6]$		
$[\text{Ag}(\text{CN})_2]^-$		

Select any complex ion from the above table and state whether it is paramagnetic, diamagnetic or neither. Explain your reasoning.