

Task:

the lowest oxides of transition metal is basic while the highest is acidic or amphoteric. give reason.

Answer:

*d*-block elements exhibit a wide variety of oxidation numbers. They may have one or more oxides that exhibit only basic properties and one or more oxides that exhibit only acidic properties. The higher the oxidation number is, the more acidic the corresponding oxide is. The oxides that have metal atom with the highest oxidation number form acids in reaction with the water. The oxides that have metal atom with the lowest oxidation number form bases in reaction with the water.