

VI) Redox Logic Problems

April 30, 2018 8:31 PM

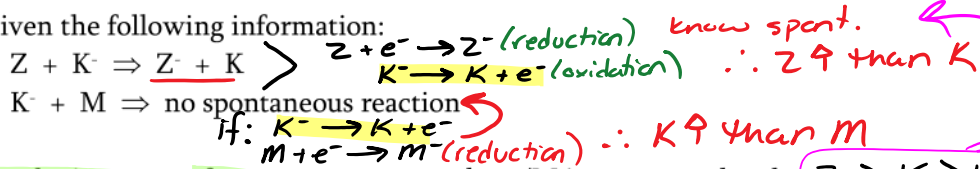
VI) Redox Logic Problems

Strategy to solve redox logic problems:

- i) separate all substances into oxidizing agents and reducing agents
- ii) write the reduction half-rxns
- iii) use the given information to order the half-reactions into a mini table
- iv) solve the problem using the mini table

Try to build your own table

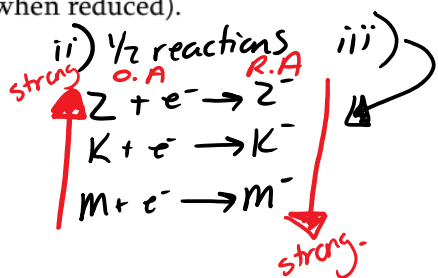
Example: Given the following information:



List the reducing agents from strongest to weakest (M is a nonmetal and becomes M^{\ominus} when reduced). $Z > K > M$

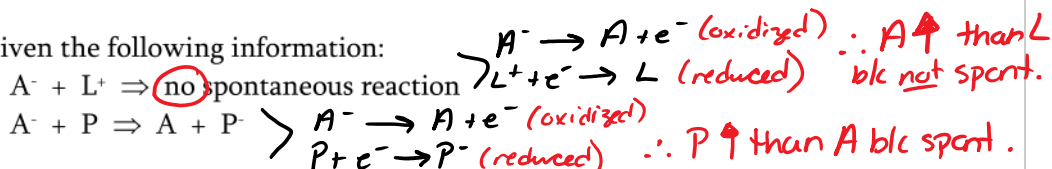
i) O.A. { R.A.

Z	}	Z^{\ominus}
K	}	K^{\ominus}
M	}	M^{\ominus}



iv) Reducing Agents
strongest \rightarrow weakest
 $M^{\ominus}, K^{\ominus}, Z^{\ominus}$

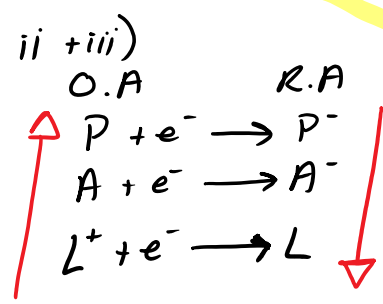
Example: Given the following information:



List the oxidizing agents from strongest to weakest (L is a metal and becomes L^{\oplus} when oxidized).

i) O.A. { R.A.

P	}	P^{\ominus}
A	}	A^{\ominus}
L^{\oplus}	}	L



iv) The oxidizing Agents:
strongest \rightarrow weakest
P, A, L^{\oplus}
(oxidizing agents get reduced)