**Question 22:** Identify the oxidized and reduced species in the following reaction.  $Cl2(g) + 2Br(aq.) - \Rightarrow 2Cl(aq.) - + Br2(l)$ 

## **ANSWER: OPTION 4**

In Cl2, Cl is 0 oxidation state whereas in Cl-, it is in -1 oxidation state. Similarly is the case of Br2 and Br-.

As per the definition of Oxidation and reduction,Cl2 is getting reduced and Br- is getting oxidized, Hence option 4 is correct