**Single Correct Choice**

|  |  |
| --- | --- |
| **subject** | Physics Chanit |
| **question** | When solid potassium chlorate,  \[KCl{{O}\_{3}}\]  , dissolves in distilled water the temperature of the solution decreases. What are the signs of  \[\Delta {{H}^{\varnothing }}\]  ,  \[\Delta {{S}^{\varnothing }}\]  and  \[\Delta {{G}^{\varnothing }}\]  for this spontaneous process? |
| **question\_hindi** | < |
| **question\_image** | Consider the following two equations. What is  \[\Delta {{H}^{\varnothing }}\]  , in kJ, for the following reaction?  \[CaO(s)+C{{O}\_{2}}(g)\to CaC{{O}\_{3}}(s)\] |
| **question\_type** | single\_choice |
| **level** | Easy |
| **optionA** | Neutron  Consider the following two equations. What is  \[\Delta {{H}^{\varnothing }}\]  , in kJ, for the following reaction?  \[CaO(s)+C{{O}\_{2}}(g)\to CaC{{O}\_{3}}(s)\] |
| **option1\_hindi** |  |
| **optionB** | Positron |
| **Option2\_hindi** |  |
| **optionC** | Proton |
| **Option3\_hindi** |  |
| **optionD** | Electron |
| **option4\_hindi** |  |
| **solution\_english** | Neutron is charge less entity |
| **solution\_hindi** |  |
| **is\_pyq** | Yes |
| **pyq\_year** | 2012 |
| **answer** | A |
| **assertion\_english** | A |
| **assertion\_hindi** | A |
| **reason\_english** | A |
| **reason\_hindi** | A |

|  |  |
| --- | --- |
| **subject** | Chemistry |
| **question** | Which of the following compounds are amphoteric in nature |
| **question\_hindi** |  |
| **question\_image** |  |
| **question\_type** | multiple\_choice |
| **level** | Easy |
| **optionA** | Al2O3\text{Al}\_2\text{O}\_3Al2​O3​ |
| **option1\_hindi** |  |
| **optionB** | ZnO |
| **option2\_hindi** |  |
| **optionC** | Proton |
| **option3\_hindi** |  |
| **optionD** | Electron |
| **option4\_hindi** |  |
| **solution\_english** | Both Al2O3\text{Al}\_2\text{O}\_3Al2​O3​ and ZnO\text{ZnO}ZnO react with acids and bases, making them amphoteric |
| **solution\_hindi** |  |
| **is\_pyq** |  |
| **pyq\_year** |  |
| **answer** | A,B |
| **assertion\_english** |  |
| **assertion\_hindi** |  |
| **reason\_english** |  |
| **reason\_hindi** |  |