| 5. The largest oxidation number exhibited by an element depends on its outer electronic configuration. With which of the following outer electronic configurations the element will exhibit the largest oxidation number? |
|---|
| (i) 3d1 4s2   |

- (ii) 3d3 4s2
- (iii) 3d5 4s1
- (iv) 3d5 4s2

**Solution:** 

Option (iv) is the answer