

## JEE Main 29 January 2024 Shift 2 Answer Key Chemistry

Q.1: From the given ions, which is the best-reducing agent (Lu <sup>3+</sup> , Nd <sup>3+</sup> , Ce <sup>4+</sup> , Gd <sup>2+</sup> )?
A.1: Gd2+
Q.2: State the oxidation state of Iron in the complex formed in the brown ring test.
A.1: +1/+3
Q.3: State the reason behind the oxygen showing anomalous behavior.
A.1: Small size, high electronegativity, absence of vacant d- orbital
Q.4: What will be the IPUC name of the compound where in a cyclohexane ring, the alekene is in the second position and in the first position there is alcohol (OH).  A.4:
Q.5: From the given options which has the highest 1 <sup>st</sup> ionization energy (Si, Al, C, N)?
A.5: N
Q.6: Neslers Reagent given brown colour with?
A.6: DMG

Q.7: Along the given list which of the following compounds has zero dipole moment (NH3,

H2O, HF, CO2, SO, BF3, CH4)?

A.7: H20