

Molecular Spectroscopy are associated with changes in the following EXCEPT changes in the configuration of electron

Ammonia (NH_3) shows _____ hybridisation
sp³

Boron trifluoride, BF_3 , shows _____ hybridisation
sp²

diative transition can be classified and characterised by multipolarity, which of these transition will give the highest Einstein coefficient,
A (S-1)
Electric dipole

Which of these energies is defined by Internal energy of a molecule
All of the above

When any of the components of electromagnetic radiation (EMR) interacts with matter, the energy level of the molecule may change through interaction with _____
Proton

If the dipole moment of hydrogen molecule is zero then its transition moment when it interacts with electromagnetic radiation
Zero

Which of these temperatures show that a particular type of energy is not a significant component of molecular spectroscopy
2500K

Which of these is NOT a limitation of valence bond Theory
The Valence bond theory do not concentrate on the valence electron

Types of interaction that can be encountered when atoms are close to each other
INCLUDE all EXCEPT
Repulsion between electrons