

- Briefly explain the following concepts and their electronic origins.

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(a) paramagnetism

**Paramagnetism is the property of any substance that is attracted by a magnetic field. It occurs due to the presence of unpaired electrons. Paramagnets lose their magnetism when the magnetic field is removed.**

(b) polar bond

**If the electron density in a covalent bond is not shared equally between the 2 atoms, a polar bond is formed. This occurs when the 2 atoms have different electronegativities.**