Question 26 (3 marks)

Some materials become superconductors when cooled to extremely low temperatures.

3 Identify THREE properties of superconductors.

Below their critical temperature, superconductors will offer no resistance to current. This is explained by the cooper pailing of electrons in the BCS theory. They will also exclude external magnetic fields, known as the meisure effect.

In addition, ceramic superconductors (union generally have higher critical temperatures) are very withe and chamically unstable in some environments.