1 Ans: Derivation of Claussius–Mosotti equation.

2 Ans: Electronic Polarisability 1.926×10^{-28} Fm^{-2}

3 Ans: Polarisability 0 (Zero)

4 Ans: 4.3×10^{-8} C/m^2

5 Ans: Magnetization M=27 A/m; Magnetic flux density B=1.26×10^{-2} Wb/m^2

6 Ans: The material exhibits Ferromagnetism (For M/M_S=0.9 vallue), the materials are ferromagnetic materials, Ex. Iron, Nickel, Cobalt.

7. Ans: Diamagnetic materials and derivation of Langevin' s Theory of Diamagnetism

8. Susceptibility 3×10^{-7} and Magnetic flux density B= 1.26×10^{-3} Wb/m^2