Chapter 10

- 1. What are the desirable properties of supercritical fluids?
 - Ans: (a) Liquid like density
 - (b) Gas like viscosity
 - (c) Reduction in surface tension
 - (d) Higher diffusivity than liquids
- 2. What is drawback of CO_2 as supercritical fluid?

Ans: It cannot extract polar solutes.

- 3. What is disadvantage of NO as supercritical fluid? Ans: Explosive
- 4. What is disadvantage of H2O as supercritical fluid?

Ans: High P_c (>220 bar) and T_c (>370 ^{0}c) and water becomes corrosive at these conditions.

5. Name one modifier and mention its role.

Ans: 1-10% methanol in CO_2 to solubilize polar solutes.