**7.1 Type of DC Motors. (8)**

**(a) Series DC Motor:**  
Field winding is in **series** with the armature. Provides **high starting torque**, but speed varies greatly with load. Used in applications like cranes or traction systems.

**(b) Shunt DC Motor:**  
Field winding is in **parallel** (shunt) with the armature. Offers **good speed regulation** and is suitable for applications requiring **constant speed**.

**(c) Cumulative Compound DC Motor:**  
Has both **series and shunt windings**. Combines high starting torque with decent speed regulation. Common in elevators and presses.

**(d) Differential Compound DC Motor:**  
Also has both windings, but their magnetic effects **oppose each other**. Provides **good speed control** but has **poor torque**, making it rarely used.