**7.3 Advantages of Induction Motors (4 Marks)**

**1. Simple and Robust Construction:**  
No brushes or commutators, especially in squirrel cage types, resulting in high durability.

**2. Low Maintenance:**  
Fewer moving parts and no brush wear, unlike DC motors.

**3. Cost-Effective:**  
Cheaper to produce, install, and maintain than DC or synchronous motors.

**4. Self-Starting (3-phase):**  
The **rotating magnetic field** created by the stator induces current in the rotor, allowing it to start automatically.

**5. High Efficiency at Full Load:**  
Very efficient when running near rated capacity.

**6. No Sparks (Brushless Design):**  
Safe for hazardous environments due to spark-free operation.