

**GS-III Infrastructure: Energy, Ports, Roads, Airports, Railways etc.**

**1. Explain the concept of Smart Metering and Benefits and Limitations Associated with them.**

**Why this Question?**

- The Union Finance Minister, urged states and union territories to replace all conventional electricity meters with prepaid smart meters over the Next Three Years.

**Key Demands of Question:**

- Explain the concept of smart metering and its associated benefits and limitations.

**Directive word:**

**Explain:**

- Here the student should clearly express why something happens, or why something is the way it is. He needs to look at a subject in depth taking note of the detail and if appropriate, consider the implications, and should explain them in good simple language.

**Structure of Answer:**

**Introduction:**

- Explain the concept of smart metering.

**Body:**

- Explain in brief about working of smart meters.
- Discuss its benefits. For example, reduce billing error, increasing efficiency, etc.
- Explain its limitations like it does not address transmission loss, electricity theft problem, etc.

**Conclusion:**

- Conclude with the significance of the smart metering to ensure efficient power systems.