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1. National Supercomputing Mission

Prelims Perspective: What needs to be learned

- Which areas can benefit from the supercomputing mission?
- What are Supercomputers?

What needs to be known?

- National Supercomputing Mission

- ➔ **Launch:** Launched in 2015 under the Ministry of Electronics, aiming to install supercomputers and help in high-end computing like R&D.
- ➔ The government has also launched the **India Semiconductor Mission** to boost the production of semiconductors needed for supercomputers.

- ➔ Implemented By

- ★ Centre for Development of Advanced Computing, Pune
- ★ Indian Institute of Science, Bengaluru

- What are Supercomputers?

- ➔ **What is it?** A supercomputer is a large computing system specifically designed to solve complex, scientific and industrial challenges, which tend to be time-consuming and computation-intensive.
- ➔ **Application:** Used in studying quantum mechanics, weapons research, weather forecasting and climate research, oil and gas exploration, data analytics, big data etc.
- ➔ **Indigenous Supercomputers:** PARAM Siddhi, Pratyush, etc.

2. Human Papillomavirus (HPV)

Prelims Perspective: What needs to be learned?

- In disease questions, UPSC expects candidates to know the pathogen involved and the mode of transmission.

What needs to be known?

- **Human Papillomavirus (HPV)**
 - HPV is a **DNA virus** that spreads via sexual contact and causes cervical cancer, and can affect other areas like the throat, skin, etc.
 - No specific cure is available, but the vaccine exists.
- **Few Steps Taken to Counter HPV**
 - **WHO**: '90-70-90' targets for 2030 to combat cervical cancer.
 - The Union government has proposed to add the HPV vaccine under the Universal Immunisation Programme.

Other sexually transmitted diseases:

- AIDS
- Hepatitis

Government vaccine schemes

- Universal Immunisation Programme.
- Mission Indradhanush

3. Pradhan Mantri Rashtriya Krishi Vikas Yojana (PM-RKVVY)

Prelims Perspective: What needs to be learned?

- Objective and Ministry
- Key Pillars

What needs to be known?

- **Pradhan Mantri Rashtriya Krishi Vikas Yojana (PM-RKVVY)**
 - ➔ **It was launched** in 2024 as a **Centrally Sponsored Scheme** under the Ministry of Agriculture.
 - ➔ **Objective:** It focuses on addressing challenges like nutrition security, climate resilience, value chain development, and private sector participation.
 - ➔ **Key Pillars**
 - ★ Soil Health Management
 - ★ Rainfed Area Development
 - ★ Agro Forestry
 - ★ Paramparagat Krishi Vikas Yojana
 - ★ Agricultural Mechanization (including Crop Residue Management)
 - ★ Per Drop More Crop
 - ★ Crop Diversification Programme