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# Topic wise content

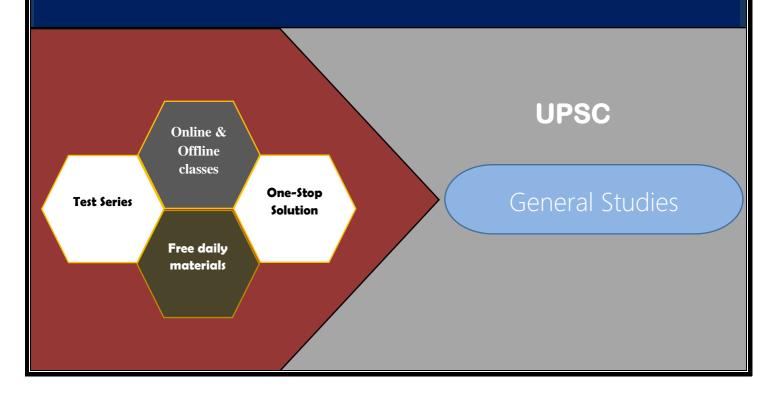


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## **Biotech-PRIDE**

### Notes for civil services preparation





#### **Biotech-PRIDE**

- Recently, Biotech-PRIDE (Promotion of Research and Innovation through Data Exchange) Guidelines was released by the Department of Biotechnology (DBT), Ministry of Science and Technology.
- Further, a website of Indian Biological Data Centre (IBDC) was also launched...

#### **Key Points**

- Biotech-PRIDE Guidelines:
- These guidelines envisage to **bridge other existing biological datasets/data centres** with the IBDC, which will be called **Bio-Grid**.
- This Bio-Grid will be a **National Repository for biological knowledge**, information and data.
- Also, Bio-Grid will be responsible for enabling its exchange, developing
  measures for safety, standards and quality for datasets and establishing
  detailed modalities for accessing data.
- These guidelines will be implemented through **Indian Biological Data Centre** (IBDC).
- Currently, **India ranks number 4** amongst the top 20 countries contributing biological database.

#### Need for Bio-Grid and its Advantages:

- With a large population of over 135 crore and heterogeneous character of the country, India needs its **own exclusive database for Indian research and solutions.**
- This indigenous database will have a huge enabling mechanism for exchange and adoption of data by young scientists and researchers for the benefit of Indian citizens.
- Sharing a wide range of large scale data advances the **understanding of the molecular and biological** 
  - o This will contribute to **human health, agriculture, animal husbandry,** fundamental research and thus will extend to societal benefits.
- Advances in DNA sequencing with a steep drop in DNA sequencing cost have enabled government agencies to fund research towards generation of large volumes of biological data in various sectors of Biosciences.

#### Important Schemes and Policies Regarding Biotech:

- Biotech-KISAN Programme
- Atal Jai Anusandhan Biotech Mission Undertaking Nationally Relevant Technology Innovation (UNaTI)







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- DNA Technology Bill, 2019
- Genome India Project

