

## **Prelim Bits 28-03-2019**

### **Multi-Dimensional Poverty Index**

- Global MPI 2018 Report is prepared by the United Nations Development Programme (UNDP) and the Oxford Poverty and Human Development Initiative
- MPI is the product of the following factors
  1. Poverty rate as a percentage of the population.
  2. Intensity as the average share of deprivations that poor people experience.
- If someone is deprived in a third or more of 10 weighted indicators, the global index identifies them as “MPI poor”.
- According to the report Bihar was the poorest state in 2015-16, with more than half its population in poverty.
- The four poorest states of India according to the report are Bihar, Jharkhand, Uttar Pradesh, and Madhya Pradesh.

### **UNDP**

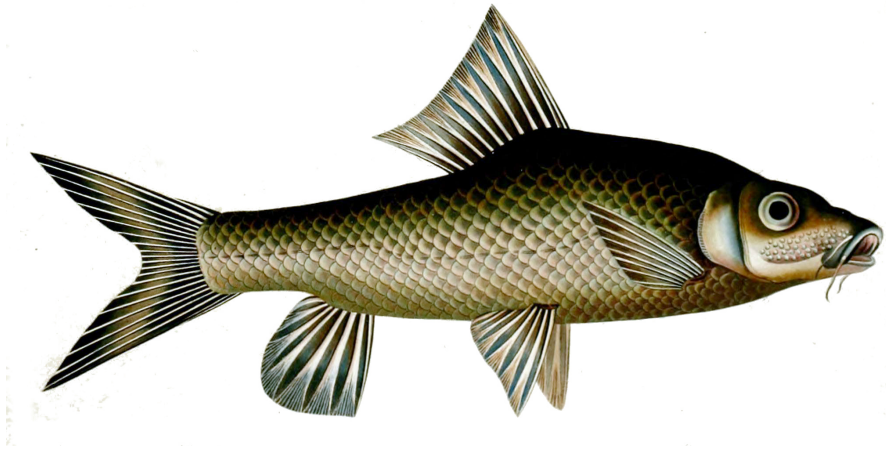
- The United Nations Development Programme (UNDP) is the United Nations' global development network it advocates for change and connects countries to knowledge, experience and resources to help people build a better life for themselves.
- It provides expert advice, training and grants support to developing countries, with increasing emphasis on assistance to the least developed countries.
- The Sustainable Development Goals (SDGs) of UNDP is a universal call to action to end poverty, protect the planet and ensure that all people enjoy peace and prosperity.

### **Hump Backed Mahseer**

- The Humpback (or) Tor remadeviiiis the largest known species of Mahseer and, across the world, is only found in the Kaveri river basin.
- The effects of construction of dams, regulated flows, deforestation, drought, pollution and sediment transport has a great toll on this river water species.
- Recently the fish has been added to the IUCN Red List as Critically

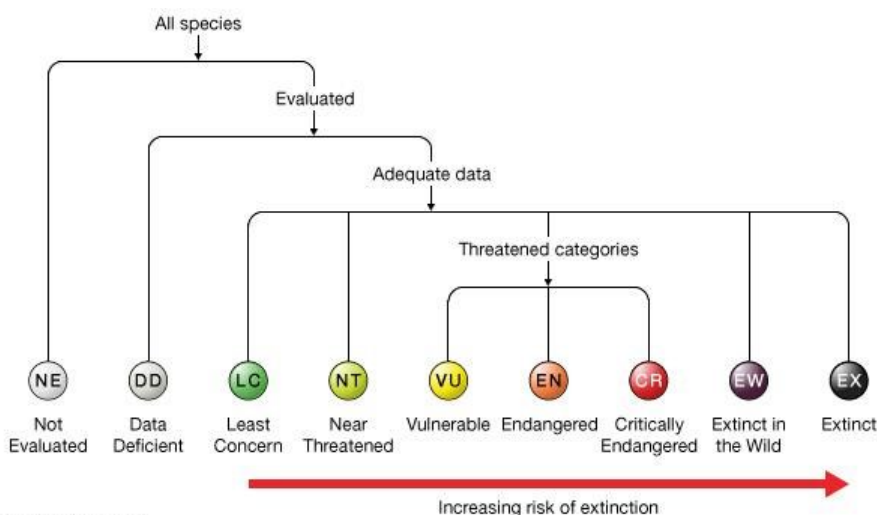
## Endangered

- This fish is also called as tiger of the water found in Pambar, Kabini and Bhavani rivers of the Karveru basin in the states Karnataka, Kerala and Tamil Nadu.



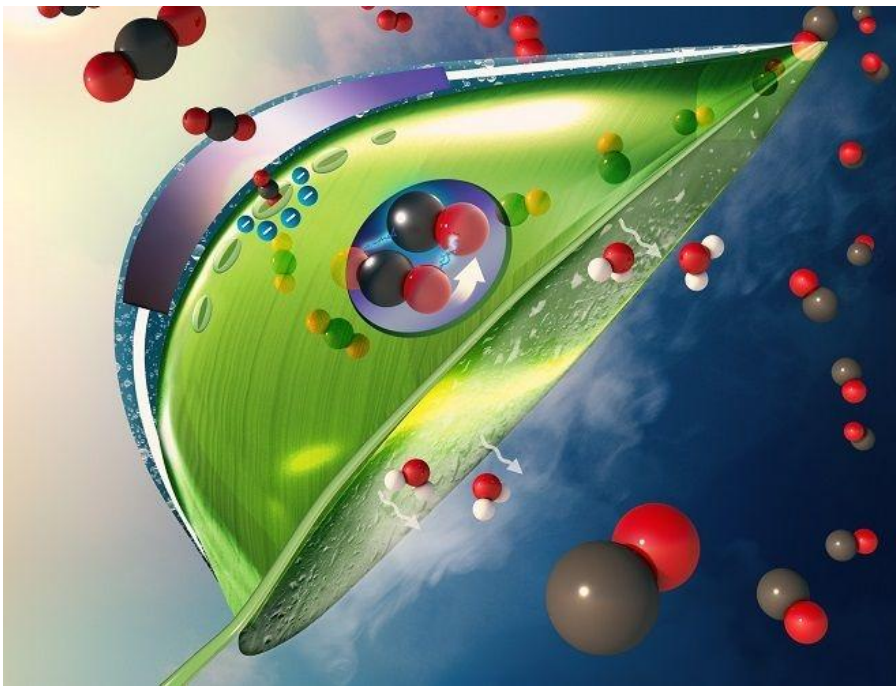
## IUCN Red list

- International Union for Conservation of Nature (IUCN) is an international organization (NGO) based in Switzerland.
- IUCN is working in the field of nature conservation and sustainable use of natural resources.
- The organization is best known for compiling and publishing the IUCN Red List, which assesses the conservation status of species worldwide.
- The IUCN Red List of Threatened Species, founded in 1964, is the world's most comprehensive inventory of the global conservation status of biological species.
- When discussing the IUCN Red List, the official term “threatened” is a grouping of three categories: Critically Endangered, Endangered, and Vulnerable.



## Artificial Leaves

- Recently researchers have built artificial leaves which mimic the process that occurs in real plants, turning CO<sub>2</sub> into breathable oxygen through photosynthesis.
- The artificial leaf converts the carbon dioxide into carbon monoxide and oxygen.
- Artificial leaf under sunlight when placed inside a water-filled capsule with a semi-permeable membrane, the water evaporates through the membrane.
- This process slowly sucks in carbon dioxide through the membrane, where the device can get to work.
- From here, the oxygen can be released into the air or collected, while the harmful gas can be pulled from the device and used to create synthetic fuels like methanol.
- The artificial leaf unit is able to function in the outside environment like a natural leaf which is 10 times more efficient than even natural eaves.



**Source: The Hindu, Indian Express, India times**