

# Prelim Bits 25-03-2023 | UPSC Daily Current Affairs

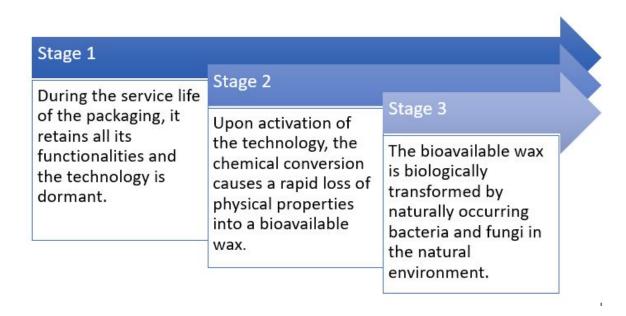
## **Biotransformation Technology**

A UK-based start-up claims to have developed Biotransformation technology that can alter the state of plastics and make them biodegradable.

- Biotransformation technology is a process which alters the state of plastics and make them biodegradable.
- The technology would digest the plastic packaging waste naturally with the help of microbes without leaving behind any microplastics.
- It ensures that plastic which escaped refuse streams to be fully biodegrade in the natural environment.

The biotransformation technology is the world's first that ensures **polyolefins** fully biodegrade in an open environment causing no microplastics.

- **Process** Plastics made using this technology are given a pre-programmed time during which it looks and functions like conventional plastics.
- After expiry and exposure to the external environment, it self-destructs and biotransforms into bioavailable wax.
- This wax is then consumed by microorganisms, converting waste into water, CO2, and biomass.



- The technology attacks the crystalline and amorphous region of the polymer structure, rapidly turning it into a wax-like material.
- This wax-like material is no longer a plastic and is not harmful to the environment.

- **Utility** This technology to reduce waste can be used in the 2 prime plastic waste producing sectors food packaging and health care.
- Indian initiatives towards plastic waste management
  - 1. Plastic waste management gazette.
  - 2. Last year, the Indian government imposed a ban on single-use plastics.
  - 3. National Dashboard on Elimination of Single Use Plastic and Plastic Waste Management.
  - 4. Extended Producer Responsibility (EPR) portal.

#### References

1. The Hindu - What is Biotransformation technology?

# **Disqualification of MP**

Wayanad MP Rahul Gandhi's membership of Parliament has been cancelled following his conviction in a defamation case.

- The Lok Sabha Secretariat issued a notification stating that 'Rahul stood disqualified from the membership of Lok Sabha from the date of his conviction.
- His disqualification was in terms of the provisions of
  - Article 102(1)(e) of the Constitution of India.
  - Section 8 of the Representation of the People Act, 1951.
- Article 102 deals with the disqualification of MPs from either house of the Parliament.
  - Article 102 (1) of the article lists the reasons why an MP can be disqualified.
  - Article 102 (1) (e) if he is so disqualified by or under any law made by Parliament.
- In this case, the law under which he has been disqualified is the Representation of People Act, 1951.

# The Representation of the People Act, 1951

- The Act provides for the conduct of election of the Houses of Parliament, the qualifications and disqualifications for membership of those Houses.
- Section 8 of the RP Act, 1951 deals with disqualification of a lawmaker for conviction in certain offences.
- Disqualification is triggered under
  - Section 8(1) specific offences.
  - <u>Section 8(2)</u> offences that deal with hoarding or profiteering, adulteration of food or drugs and for conviction and sentence (at least 6 months) under the Dowry Prohibition Act.
- Congress Leader Rahul Gandhi was held guilty and sentenced to 2 years in jail by a Surat court in a 2019 defamation case, which triggered the Section 8(3) of the RPA, 1951.
- **Section 8(3)** of the RPA, 1951 states that a person convicted of any offence and sentenced to imprisonment for <u>not less than 2 years</u> shall be disqualified <u>from the date</u> of such conviction.
- Further the person shall continue to be disqualified for a further period of <u>6 years</u>

since his release.

• **Reversal** - The disqualification can be reversed if a higher court grants a stay on the conviction or decides the appeal in favour of the convicted lawmaker.

# Lily Thomas v Union of India, 2013

- Immediate Disqualification In the landmark judgement, the Supreme Court struck down Section 8(4) of the RPA as unconstitutional.
- **Section 8(4)** of the RPA stated that the disqualification takes effect only <u>after 3</u> <u>months</u> have elapsed from the date of conviction, within which lawmakers could file an appeal in the High Court.

#### References

1. IE - Laws under which Rahul Gandhi has been disqualified

### **ICMR Guidelines for AI**

The Indian Council of Medical Research (ICMR) has released India's first Ethical Guidelines for Application of Artificial Intelligence in Biomedical Research and Healthcare.

- The Indian Council of Medical Research (ICMR) is the India's apex body for formulation, coordination and promotion of biomedical research.
- **Publisher** ICMR has released the document titled Ethical Guidelines for AI in Healthcare and Biomedical Research.
- The ethical guidelines document was prepared by the Department of Health Research and ICMR Artificial Intelligence Cell, Delhi.
- **Aim** It aims at creating an ethics framework which can assist in the development, deployment, and adoption of AI-based solutions in healthcare.
- The document is intended for all stakeholders involved in research on AI in biomedical research and healthcare.
- The guidelines include ethical principles, guiding principles for stakeholders, an ethics review process, governance of AI use, and informed consent.
- Other initiatives India already offers streamlining of AI technologies in healthcare through
  - 1. National Health Policy (2017)
  - 2. National Digital Health Blueprint (NDHB 2019)
  - 3. Digital Information Security in Healthcare Act (DISHA 2018) under which National Data Health Authority and other health information exchanges were established.

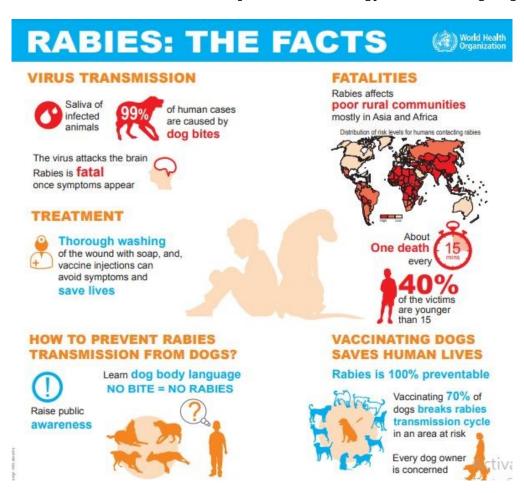
#### References

- 1. The Hindu Ethical guidelines for AI usage in healthcare
- 2. Down To Earth ICMR releases guidelines for AI usage
- 3. ICMR Ethical guidelines for application of Artificial Intelligence

## **National Rabies Control Programme**

The Union Minister of Fisheries, Animal Husbandry and Dairying elaborated about Rabies control in India in a written reply in Rajya Sabha.

- Ministry of Fisheries Animal Husbandry & Dairying and Ministry of Health & Family Welfare jointly launched <u>'National Action Plan for Dog Mediated Rabies Elimination</u> (NAPRE) from India by 2030'.
- The Union Government has launched the National Rabies Control Programme (NRCP) for prevention and control of Rabies.
- The Strategies of the National Rabies Control Program are
  - 1. Provision of rabies vaccine & rabies immunoglobulin through national free drug initiatives.
  - 2. Training on appropriate animal bite management, prevention and control of rabies.
  - 3. Strengthening surveillance of animal bites and rabies deaths reporting.
  - 4. Creating awareness about rabies prevention.
- Rabies Rabies is a vaccine-preventable zoonotic viral disease.
- **Transmission** Dogs are the source of the vast majority of human rabies deaths, contributing up to 99% of all rabies transmissions to humans.
- **Prevention** The most cost-effective prevention strategy is vaccinating dogs.



## References

1. PIB - GoI launches National Rabies Control Programme (NRCP)

#### 2. WHO - Rabies in India

## **GST Appellate Tribunal**

Lok Sabha approves setting up of GST Appellate Tribunal to solve disputes linked to the Goods and Services Tax (GST).

- The <u>GST Act of 2017</u> has provisions to set up an appellate tribunal for disputes between assesses and the authorities.
- Present Status Taxpayers file writ petitions before High Courts.
- **GST Council** The <u>council</u> is the apex federal body on GST matters, headed by the Union finance minister, with states represented through their respective finance ministers.
- $\bullet$  The  $49^{\text{th}}$  GST Council meeting accepted the constitution of GST appellate tribunal (GSTAT).
- **GSTAT** The tribunal will hear appeals against the orders passed by the Appellate Authority or the Revisional Authority.
- GSTAT will have a Principal Bench and also state benches.
- The <u>Principal Bench</u> in New Delhi will consist of a President, a judicial member, a technical member (centre) and a technical member (state).
- <u>State benches</u> will be set up on the request of states which will include 2 judicial members, and 2 technical members representing the Centre and state.
- Provisions -

Disputes	Adjudicated by
Up to Rs 50 lakh	Single member bench
Above Rs 50 lakh	1 technical member and 1 judicial member

 Advantage - Establishment of Appellate tribunal would result in lower burden on the courts and taxpayers.

## References

- 1. Business Standard Lok Sabha approves for GST Appellate Tribunal
- 2. Hindustan Times Lok Sabha nods for forming GSTAT

