



ENVIRONMENT (पर्यावरण)

PART-3

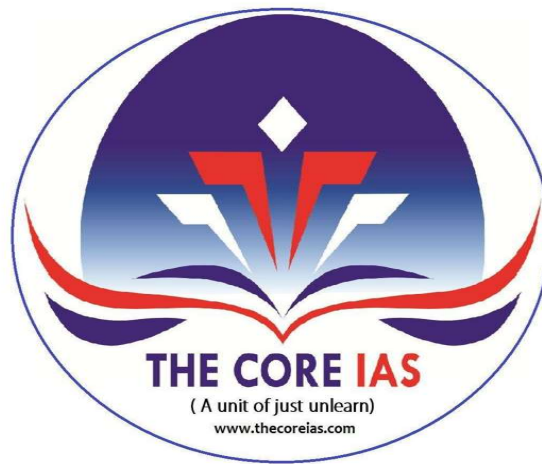
PRELIMS
2020



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ENVIRONMENT & ECOLOGY



PENCH



- Seoni: Satpura-Maikal ranges of the Central Highlands
- first inter-state project tiger area of the country

The forests in Pench tiger reserve are classified into three types:

- South Indian Tropical Moist Deciduous (slightly moist)
- Southern Tropical Dry Deciduous Teak Forests and
- Southern Dry Mixed Deciduous



NTCA



IN News: Pench

NTCA?

The National Tiger Conservation Authority is a statutory body under the Ministry of Environment, Forests and Climate Change constituted under enabling provisions of the Wildlife (Protection) Act, 1972, as amended in 2006, for strengthening tiger conservation, as per powers and functions assigned to it under the said Act.

Chairman?

CZA



-
- 1992
 - WPA 1972
 - Chairperson?

UPSC



- The term M-STRIPES' is sometimes seen in the news in the context of
 - (a) Captive breeding of Wild Fauna
 - (b) Maintenance of Tiger Reserves
 - (c) Indigenous Satellite Navigation System
 - (d) Security of National Highways

NBWL



Consider the following statements regarding the *National Board for Wildlife (NBWL)*.

1. It is a statutory Board constituted officially in 2003 under the Wild Life (Protection) Act, 1972.
2. It is chaired by the Minister of Environment Forest and Climate Change and is responsible for promotion of conservation and development of wildlife and forests.
3. The board is advisory in nature and can only advise the Government on policy making for conservation of wildlife.

Which of the statement(s) given above is/are correct?

- (a) 2 and 3 only
- (b) 1 and 2 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

FALL ARMYWORM (*Spodoptera frugiperda*)



- A dangerous transboundary insect
- *Native to the Americas*
- **FAW cannot be eliminated**
- *Global Action for FAW Control*

Biomedical waste



What are they: Any waste which is generated during the diagnosis, treatment or immunization of human beings or animals or in research activities pertaining thereto or in the production or testing of biologicals.

RULES

- *Biomedical Waste (Management and Handling) Rules, 1998*
- *Bio-Medical Waste (Management and Handling) Rules, 2011*
- **Bio-Medical Waste Management Rules, 2016**
- *Bio-Medical Waste Management (Amendment) Rules, 2019*

Free-Air CO₂ Enrichment



An experimental technique for studying the effects of elevated $p\text{ CO}_2$ on vegetation and other ecosystem components in large unenclosed plots

Carbon Fertilisation: The CO₂ fertilization effect or carbon fertilization effect is the increased rate of photosynthesis in plants that results from increased levels of carbon dioxide (CO₂) in the atmosphere

Carbon fertilization



Which of the following statements best describes "carbon fertilization"?

- (a) Increased plant growth due to increased concentration of carbon dioxide in the atmosphere
- (b) Increased temperature of Earth due to increased concentration of carbon dioxide in the atmosphere
- (c) Increased acidity of oceans as a result of increased concentration of carbon dioxide in the atmosphere
- (d) Adaptation of all living beings on Earth to the climate change brought about by the increased concentration of carbon dioxide in the atmosphere

FOREST DEPARTMENT TO RESCUE OF TRIBALS

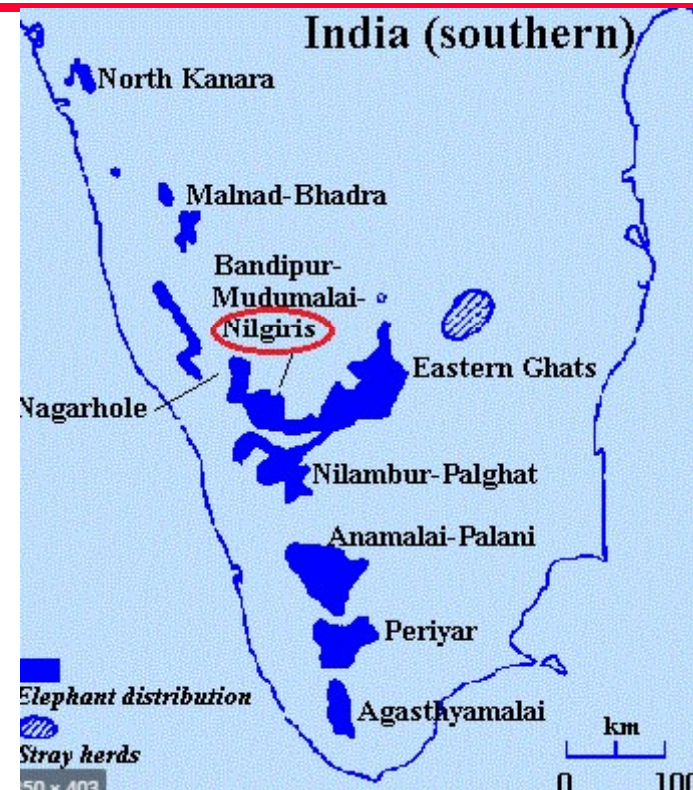


In Thiruvananthapuram, Kerala, the Forest Department has bought tribal products collected by the tribespeople of the Agasthyavanam Biological Park (ABP) and the Neyyar and Peppara forest ranges as part of a market intervention initiative to soften the lockdown impact.

Agasthyamala Biosphere Reserve



- Neyyar, Peppara and Shendurney Wildlife Sanctuaries and their adjoining areas of Achencoil
- In Kerala
- Tropical Forest
- Kani Tribe





Which of the following are in Agasthyamala Biosphere Reserve? (UPPSC 2019)

- (a) Neyyar, Peppara and Shendurney Wildlife Sanctuaries; and Kalakad Mundanthurai Tiger Reserve
- (b) Mudumalai, Sathyamangalam and Wayanad Wildlife Sanctuaries; and Silent Valley National Park
- (c) Kaundinya, Gundla Brahme-swaram and Papikonda Wildlife Sanctuaries; and Mukurthi National Park
- (d) Kawal and Sri Venkateswara Wildlife Sanctuaries; and Nagarjunasagar-Srisailem Tiger Reserve

Trimeresurus Salazar



- Pit viper belongs to the genus *Trimeresurus* Lacépède
- venomous snakes
- Collected from the Pakke Tiger Reserve



National Biofuel Coordination Committee



- Surplus rice available with the FCI is allowed to be converted to ethanol for utilization in making alcohol-based hand-sanitizers and for blending in petrol.
- By CABINET: 2009
- A National Biofuel Coordination Committee, headed by the Prime Minister, will be set up to provide policy guidance and coordination. ·
- A Biofuel Steering Committee, chaired by Cabinet Secretary, will be set up to oversee implementation of the Policy.

BACKGROUND



- EBP
- NBP
- Policy 2018

2018 POLICY



- Basic Biofuels" i.e. First Generation (1G) bioethanol & biodiesel and "Advanced Biofuels" - Second Generation (2G) ethanol, Municipal Solid Waste (MSW) to drop-in fuels, Third Generation (3G) biofuels, bio-CNG etc. to enable extension of appropriate financial and fiscal incentives under each category.
- By 2030: 20% & 5%
- Expands the scope of raw material for ethanol production by allowing use of Sugarcane Juice, Sugar containing materials like Sugar Beet, Sweet Sorghum, Starch containing materials like Corn, Cassava, Damaged food grains like wheat, broken rice, Rotten Potatoes, unfit for human consumption for ethanol production
- Policy allows use of surplus food grains for production of ethanol for blending with petrol with the approval of National Biofuel Coordination Committee.

Pradhan Mantri JI-VAN (Jaiv Indhan- Vatavaran Anukool fasal awashesh Nivaran)



- 2018-19 to 2023-24
- Providing financial support to Integrated Bioethanol Projects using lignocellulosic biomass and other renewable feedstock.

Sustainable Alternative Towards Affordable Transportation



- Launched in October 2018 by the Ministry of Petroleum & Natural Gas in association with Public Sector Undertaking

Earth Day Network



- Not for profit organization that leads Earth Day worldwide.
- 1970



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Consider the following statements with reference to the *Fall Armyworm (FAW)*.

1. The IUCN has launched a Global Action for FAW Control as a response to the international threat posed by the armyworms.
2. It is a dangerous transboundary insect with a high potential to spread rapidly due to its natural distribution capacity.
3. It is native to tropical and subtropical regions of the Americas.

Which of the statement(s) given above is/are correct?

- (a) 2 and 3 only
- (b) 1 and 2 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

PRELIMS

2020

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