

DAILY CURRENT AFFAIRS

19th February, 2024

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S.NO. TOPIC

IPCC'S ASSESSMENT REPORTS
 PRELIMS POINTERS

IPCC'S ASSESSMENT REPORTS

SOURCE: THE HINDU

<u>**TAG:</u>** GS Paper III- Causes of Pollution & Degradation, Prevention & Control of Pollution & Degradation, International Environment Agencies & Agreements.</u>

PRACTICE QUESTIONS

<u>Mains</u>

Q. Discuss the role and challenges faced by the Intergovernmental Panel on Climate Change (IPCC) in providing scientific assessments of climate change.

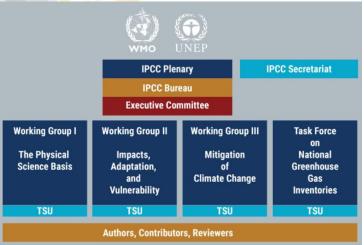
(150 words)

WHY IN NEWS?

The recent IPCC report underscores the urgent need to address climate change as it warns of nearing adaptation limits and advocates for strategies to mitigate warming. Additionally, the initiation of the seventh assessment cycle (AR7) by the IPCC further highlights global efforts to understand and combat the challenges posed by climate change.

ABOUT IPCC:

- The Intergovernmental Panel on Climate Change (IPCC) was established in 1988 by the World Meteorological Organization (WMO) and United Nations Environment Programme (UNEP).
- Its primary purpose is to assess the science related to climate change, providing policymakers with regular assessments of the scientific
- basis, impacts, future risks, and options for adaptation and mitigation.
- IPCC assessments inform the development of climate-related policies at all levels of government and are integral to negotiations at the UN Climate Conference (UNFCCC).
- While IPCC assessments are policyrelevant, they are not policyprescriptive, offering projections of future climate change scenarios, risks, and implications of response options



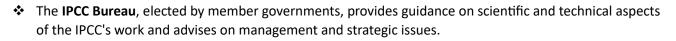
without dictating specific actions for policymakers.

- The IPCC operates as a scientific and intergovernmental body, with participation open to all 195 member countries of the WMO and United Nations.
- Decision-making within the IPCC is conducted through Plenary Sessions, where representatives of member states gather to make major decisions.

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RECENT IPCC REPORTS:

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- Since 1988, the UN Intergovernmental Panel on Climate Change (IPCC) has produced numerous assessment reports, special reports, and methodology reports.
- The Sixth Assessment Report (AR6), completed in 2021-2022, focuses on the science, consequences, adaptation, vulnerability, and mitigation aspects of climate change.
- AR6 emphasizes the urgency of limiting global warming to 1.5 degrees Celsius as agreed in the Paris
 Agreement, highlighting the nearing of adaptation limits.

INITIATION OF AR7 CYCLE:

- After AR6, the IPCC began its seventh assessment cycle (AR7) with the election of a **new IPCC bureau**.
- The bureau convened for the first time in Turkey in January 2024 to discuss budgeting, report timelines, and work programs.
- The AR7 cycle will produce full assessment and synthesis reports, methodology reports, and a special report on climate change and cities.
- Methodology reports will cover short-lived climate forcers and carbon removal.
- Technical guidelines on impacts and adaptation will be revised.

GLOBAL STOCKTAKE:

- The Global Stocktake is a recurring assessment mechanism established under the Paris Agreement in 2015.
- It occurs every five years, with the inaugural stocktake concluded at the UN Climate Change Conference (COP28) in 2023.
- The main objectives of the stocktake are to evaluate individual countries' efforts in reducing Greenhouse Gas (GHG) emissions and transitioning to renewable energy sources.
- Although countries have outlined their Nationally Determined Contributions (NDCs), they are encouraged, but not obligated, to elevate their ambitions every five years.
- Decision 19/CMA.1 emphasizes that the global stocktake is a Party-driven process conducted transparently and with the participation of non-Party stakeholders.
- It allows countries and stakeholders to evaluate collective progress towards meeting the goals of the Paris Agreement and identify areas needing improvement.
- Comparable to taking inventory, the global stocktake involves reviewing all aspects of climate action and support, identifying gaps, and collaboratively determining solutions for the future

ROLE FOR IPCC:

The Intergovernmental Panel on Climate Change (IPCC) plays a crucial role in providing policymakers and other stakeholders with a comprehensive and objective assessment of the scientific, technical, and socio-economic information related to climate change. The IPCC's role includes:

- Critically assessing the scientific literature to understand the physical science basis of climate change, its impacts, and options for adaptation and mitigation.
- Producing reports that undergo a rigorous, open, and transparent review process, ensuring the robustness of their findings.
- Providing policymakers with the latest scientific knowledge to inform international climate agreements, such as the United Nations Framework Convention on Climate Change (UNFCCC) and the Paris Agreement.
- Facilitating the integration of climate change knowledge across disciplines through the collaboration of three Working Groups: WGI (Physical Science Basis), WGII (Impacts, Adaptation, and Vulnerability), and WGIII (Mitigation of Climate Change).

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ATHASTU

- Enhancing traceability and reproducibility of report figures and tables by providing detailed input data and links to archived code.
- Adopting and promoting the FAIR (Findable, Accessible, Interoperable, and Reusable) principles to improve the transparency and reproducibility of their digital products, such as the Atlas repository for the Sixth Assessment Report (AR6).

CHALLENGES FACED BY THE IPCC:

The Intergovernmental Panel on Climate Change (IPCC) faces several challenges, including:

Author Selection and Bureau Membership:

 Criticism has been raised about the nomination and selection process for authors and Bureau members, suggesting a need for more transparency and objectivity in these processes to ensure comprehensive, unbiased, and open assessments.

Oversight and Governance:

 The IPCC's oversight mechanisms have been questioned, with some arguing that they are not adequate to ensure the unimpeachable nature of the IPCC's operations.

Comprehensiveness and Objectivity:

 The IPCC has been accused of blind spots, bias, and a lack of openness and transparency, which has led to calls for procedural reforms to address these concerns.

Review Process:

 The IPCC's review process has been scrutinized, with some case studies highlighting potential issues with drafts and reviews.

Misunderstanding of the Assessment Process:

 There is a widespread misunderstanding about the IPCC assessment process, which is often considered more formal and rigorous than it actually is, leading to a need for better communication and education about the process.

Adaptation and Mitigation Challenges:

 The IPCC's reports assess the impacts of climate change and the options for adaptation and mitigation, but the implementation of these strategies involves complex challenges that require cooperation among governments, the private sector, and civil society.

Land-Use and Biodiversity Loss:

 The IPCC's reports have highlighted the challenges associated with land-use sectors, such as farming and forestry, which contribute to the rapid loss of natural ecosystems and biodiversity, and call for better land management decisions to address climate change.

CONCLUSION:

 In conclusion, despite facing challenges, the IPCC remains crucial for providing policymakers with climate change assessments. Collaboration and improvements in transparency and governance can enhance its effectiveness in guiding global climate action.

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TOPIC

MYELOMA

PRELIMS POINTERS:

CANCER FIGHTING T-

CELLS FOR MULTIPLE

Scientists have developed a new variant of *cancer-fighting T cells* targeting multiple myeloma tumors in mice.

INTRODUCTION:

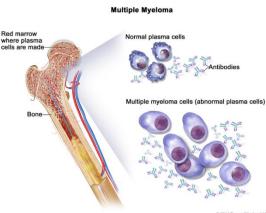
DESCRIPTION WHY IN NEWS?

- Scientists pioneer groundbreaking cancer treatment targeting multiple myeloma.
- Cancer-fighting T cells offer significant therapeutic potential.
- Engineered T cells surpass conventional CAR T cell designs.

MULTIPLE MYELOMA

Myeloma, or multiple myeloma, is a cancer of plasma cells, which produce antibodies.

It results in excessive plasma



19th February, 2024

- cell growth, crowding out normal cells in the bone marrow.
- Multiple myeloma is the most common type, originating in the bone marrow and potentially spreading.
- Symptoms include bone pain, fractures, fever, infections, bruising, weakness, and fatigue.
- Age, gender (more common in men), race (more common in Black individuals), and radiation exposure are risk factors.

WHY IN NEWS? **HIGH RISK** A recent study by the ICMR's National Institute for Research in Reproductive and • **PREGANCIES IN INDIA ON THE RISE**

highlights the high prevalence of high-risk pregnancies in India. **KEY FINDINGS OF THE STUDY:**

- High-risk pregnancy prevalence: 49.4%.
- Higher proportion of multiple high risks among women with no education (22.5%) compared to educated women.

Child Health IRRCH) analysing data from nearly 24,000 pregnant women in India

- 33% had a single high-risk factor, while 16% had multiple factors.
- Highest in Meghalaya (67.8%), Manipur (66.7%), Mizoram (62.5%), and Telangana (60.3%).
- Lowest in Sikkim (33.3%), Odisha (37.3%), and Chhattisgarh (38.1%).

STUDY METHOD:

- Used data from the National Family Health Survey-5 (2019-2021).
- Extracted data from 28,400 currently pregnant women aged 15-49 years.
- Analysed 23,853 pregnant women.



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PLAGUE RETURNS

Bubonic plague resurfaces in Oregon from a sick pet cat. Modern medicine mitigates threat, limiting concern for widespread outbreaks.

ABOUT BUBONIC PLAGUE

Bubonic Plague Re-emerges:

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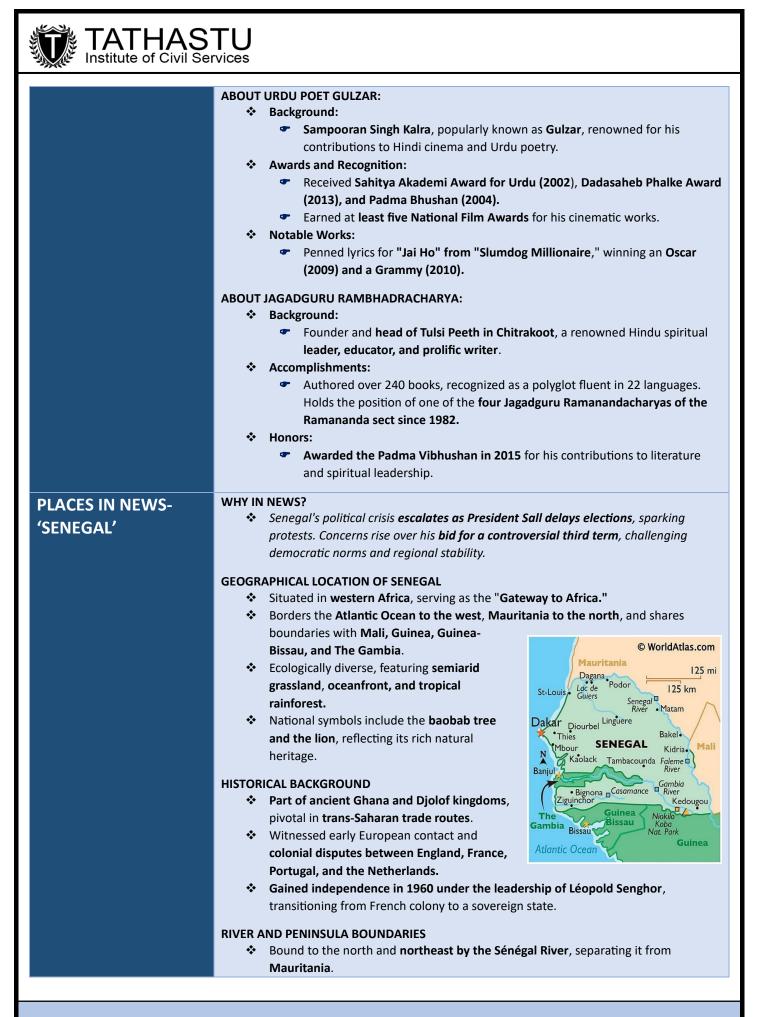
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	 Health officials confirm first bubonic plague case in Oregon since
	2005, contracted from a sick
	pet cat.
	 Cause: Yersinia pestis bacteria
	spread between animals and
	humans, primarily through
	fleas.
	Transmission:
	 Infection occurs through flea
	bites, contact with infected
	bodily fluids , or inhalation of respiratory droplets.
	Symptoms:
	 Include fever, headache, swollen lymph nodes (bubonic), and more
	severe symptoms like pneumonia and septicemia .
	IMPACT OF HISTORICAL OUTBREAKS: Black Death Legacy:
	 Black Death Legacy: Killed up to half of Europe's population, leaving genetic and societal
	impacts still felt today.
	Modern Outlook:
	Despite recent case, modern medicine and hygiene prevent widespread
	outbreak <mark>s. F</mark> atality rate now around 11%.
JNANPITH FOR	WHY IN NEWS?
GULZAR, SANSKRIT	Renowned Urdu poet Gulzar and Sanskrit scholar Jagadguru Rambhadracharya
SCHOLAR	have been honored with the 58th Jnanpith Award for their significant contributions
RAMBHADRACHARYA	to literature , recognizing Gulzar's impact on Urdu poetry and Hindi cinema , and Rambhadracharya's extensive work as a spiritual leader, educator, and author .
RAIVIDHADRACHARTA	
	ABOUT 58 [™] JNANPITH AWARD ♦ Highest Literary Honor:
	 India's top literary accolade, named after the Sanskrit words "Jnana"
	(knowledge) and "Pitha"
	(seat).
	 Inception: Established in 1001 buthe
	 Established in 1961 by the Bharatiya Jnanpith trust,
	associated with the Sahu Shanti
	Prasad Jain family, owners of
	the Times of India newspaper
	group.
	 Criteria: Conferred upon Indian citizens writing in any of the 22 official languages of
	India mentioned in the VIII Schedule of the Constitution, including English.
	 Evolution:
	 Initially awarded for a single work, later transitioned to a lifetime
	achievement recognition since 1982.
	Prize: Includes a cash prize of 11 lakh runges, a situation plaque, and a hyperpart
	 Includes a cash prize of 11 lakh rupees, a citation plaque, and a bronze replica of Saraswati, the Hindu goddess of knowledge and wisdom.
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- Bordered to the east by Mali, south by Guinea and Guinea-Bissau, and west by the Atlantic Ocean.
- Cape Verde Peninsula marks the westernmost point of Africa.
- The Gambia, a narrow strip of territory, extends eastward into Senegal along the Gambia River, isolating the Casamance region.



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