

DAILY pre PARE

Current affairs summary for prelims

3 November, 2023

Bletchley Declaration on AI safety

Context: After the UK's AI Safety Summit on November 1, 28 countries and the EU have committed to responsible AI development together.

- The Bletchley Declaration, now recognized as the **inaugural global Al safety statement**, acknowledges Al's potential to improve human wellbeing, peace, and prosperity, while also recognizing its potential for serious harm.
- > Signatories of the declaration have **pledged to prioritize international cooperation and the sharing of information** as AI technology continues to advance.
- > The declaration marks a significant milestone, with major AI players worldwide coming together to emphasize the importance of understanding AI risks for the sake of future generations.

Signatories

- African nations like Nigeria, Kenya, and Rwanda, as well as Middle Eastern countries such as Saudi Arabia and the UAE, have endorsed the agreement.
- Major Western economies, including Canada and the United States, are also signatories.
- Notably, both the **US and China**, despite their ongoing tech disputes, have signed the declaration.
- Brazil and India from the BRICS group, and ASEAN nations like Singapore, Indonesia, and the Philippines, are among the signatory countries.

Turing Test

- The Turing test, originally called the imitation game by Alan Turing in 1950, evaluates a machine's ability to exhibit human-like intelligent behaviour
- Turing's idea **involved a human evaluator** who assesses natural language conversations between a human and a machine.
- The evaluator knows that one participant is a machine, and communication is text-based to avoid dependence on speech.
- The machine passes the Turing test if the evaluator cannot reliably distinguish it from the human based on their responses. It's not about the machine providing correct answers but rather responses resembling those of a human.
- The test is not limited to verbal interactions; it extends to all aspects of human performance, including nonverbal or robotic behaviour.
- Turing introduced the test in his 1950 paper "Computing Machinery and Intelligence" while at the University of Manchester.
- The Turing test has had a significant impact and attracted both praise and criticism, making it a central concept in the philosophy of artificial intelligence.
- Criticisms, including John Searle's Chinese room argument, have sparked further debate and controversy.

National Efficient Cooking Programme

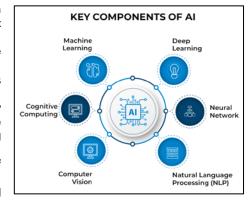
Context: The launch of the National Efficient Cooking Programme aims to encourage the use of affordable and energy-efficient induction cookers.

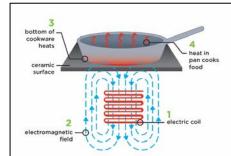
- The National Efficient Cooking Programme (NECP) introduces induction-based cook-stoves as a cost-effective cooking
- These cook-stoves offer a 25-30% cost advantage over traditional cooking methods, ensuring savings for users.
- NECP aims to deploy 2 million (20 Lakh) induction cook-stoves across India to promote environmentally friendly cooking.
- The goal is to reduce the environmental impact of cooking, leading to cleaner air and improved health for the population.
- > EESL (Energy Efficiency Services Limited) has partnered with Modern Energy Cooking Services (MECS) for the large-scale distribution of induction cooktops.

This deployment is expected to boost the acceptance and widespread use of modern electric cooking devices in Indian households.

Electrical Induction

- Electrical induction, also known as magnetic induction, refers to the generation of voltage in a conductor when it interacts with a magnetic field.
- Electromagnetic induction involves the motion of magnets around a coil of wire, leading to the creation of an electrical current within the wire.
- This can be achieved by rotating magnets while moving a coil of wire between
 them.
- When magnets rotate, they alternate between their north and south poles.
- When the north poles of two magnets are pushed together, they repel each other, while south and north poles attract.
- The attraction and repulsion between magnets cause them to rotate around the coil of wire, resulting in the generation of an electrical current.











DAILY **pre** Pare

Current affairs summary for prelims

3 November, 2023

Working of Induction Cookers

- Electromagnetic Field: An induction cooker creates a fluctuating magnetic field when powered on.
- **Special Cookware**: You need cookware with a magnetic bottom to use on the cooker.
- Eddy Currents: The fluctuating magnetic field induces swirling electric currents, known as eddy currents, within the cookware.
- **Heat Generation**: Eddy currents dissipate their energy as heat, heating the cookware.
- Cookware to Food: The hot cookware then transfers heat directly to the food inside through conduction and by moving heated liquid or air through convection.

Adaptation Gap Report 2023

Context: UNEP has released its Adaptation Gap Report 2023.

- The Adaptation Gap Report is an annual release by UNEP (United Nations Environment Programme).
- It is typically published just before the year-end climate change conference.
- The report offers a global overview of climate change adaptation efforts.
- The current edition specifically highlights the topic of adaptation finance, which refers to the funding available for implementing climate adaptation projects.

Key Findings:

- The annual financing needed for climate change adaptation in countries ranges from \$215 billion to \$387 billion, while they have been receiving just \$21.3 billion, according to a United Nations Environment Programme (UNEP) report.
- Developing nations are estimated to require \$387 billion annually for the next decade to implement climate adaptation projects, accounting for 0.6% to 1% of their combined GDP.
- For developing countries, the central adaptation finance gap is currently estimated to be between \$194 billion to \$366 billion per year.
- The adaptation finance requirements are 10-18 times higher than the current international public adaptation fund flows, representing at least a 50% increase from previous estimates.
- Despite intensifying climate impacts, global efforts to cut greenhouse gas emissions and enhance adaptation are falling
- Adaptation costs are projected to rise significantly by 2050, especially under high-warming scenarios, with coastal protection expenses increasing due to sea-level rise.
- The world has already warmed by 1.1 degrees Celsius since the preindustrial era, and current climate actions are insufficient to meet the goals of the Paris Agreement.
- The year 2023 witnessed severe extreme weather events, with record-breaking wildfires, floods, heat waves, and other catastrophes.
- Progress in climate adaptation is slowing on all fronts, and international public climate finance flows to developing countries decreased by 15% to \$21.3 billion in 2021, following a period of increase from 2018 to 2020.
- The report underscores the urgent need for comprehensive climate action, including mitigation, adaptation, and addressing loss and damage.
- Discussions on loss and damage and the doubling of adaptation efforts are lagging behind requirements.
- At COP27, countries agreed to establish a fund for loss and damage response, but a framework for the Global Goal on Adaptation to enhance resilience remains pending.
- In 2021, world leaders pledged to double adaptation finance to developing nations by 2025 at COP26, but previous financial commitments have not been met.

Surveys for Monetary Policy Insights

Context: RBI has launched two key surveys, 'Inflation Expectations Survey of Households' and 'Consumer Confidence Survey,' to aid its bi-monthly monetary policy decisions.

- **Inflation Expectations Survey of Households:**
 - This survey gathers subjective assessments of price movements and inflation.
 - It covers 19 major cities in India, including Bhopal, Bhubaneswar, Chandigarh, Chennai, Delhi, and Thiruvananthapuram.
 - Qualitative responses focus on households' expectations regarding price changes for the next three months and one year.
 - Quantitative responses include current inflation rates and expectations for inflation over the next three months and one year.







DAILY pre PARE

Current affairs summary for prelims

3 November, 2023

• The survey **helps the RBI understand how households perceive inflation**, providing insights into public sentiment on price stability.

Consumer Confidence Survey:

- This survey measures households' sentiments on various economic aspects.
- It covers 19 cities, including Ahmedabad, Bengaluru, Bhopal, Bhubaneswar, Chandigarh, Chennai, and Delhi.
- It seeks responses on general economic conditions, employment, price levels, household income, and spending.
- The survey helps the RBI gain insights into the economic well-being and sentiments of households across India.

Monetary Policy:

- Monetary policy is the central bank's (like RBI in India) approach to handling interest rates, money supply, and credit availability.
- It is primarily **used to control inflation** in the country.
- The central bank employs tools like REPO rate, Reverse REPO rate, SLR, CRR, etc., to implement monetary policy.
- In essence, monetary policy uses these tools to regulate interest rates, money supply, and credit availability with the ultimate goal of maintaining price stability.
- Price stability is crucial for sustainable economic growth, and controlling inflation is a key aspect.
- The government of India sets an inflation target for every five years, and RBI plays a significant role in this process.
- In India, the Monetary Policy Committee (MPC), a six-member committee, decides the policy interest rate required to achieve the inflation target.
- The MPC meets at least four times a year, with a quorum of four members. Each member has one vote, and the Governor has a second vote in case of a tie.
- The resolutions adopted by the MPC are made public after each meeting.
- The Reserve Bank also **publishes the Monetary Policy Report every six months**, which explains the sources of inflation and forecasts inflation for the upcoming 6-18 months.

Monetary policy Mandate maximum employment, stable prices and moderate long-term interest rates Traditional monetary policy Nontraditional monetary policy Open market operations Forward guidance uence supply of balances Helps the public better understand federal funds market, supply of policymakers' intentions about the money and credit in the economy future course of monetary policy Reserve requirements Large-scale asset purchases Provide additional sti the federal funds market, supply of interest-sensitive spending money and credit in the economy affect the economy through the same channels as traditiona monetary policy Discount window lending ce supply of balances federal funds market, supply of money and credit in the econo

News in Between the Lines

World Food India 2023



Prime Minister of India will inaugurate the second edition of the Mega food event 'World Food India 2023' today at Bharat Mandapam in New Delhi.

About World Food India 2023:

- 'World Food India 2023' is a global event organized by India's Ministry of Food Processing Industries to showcase India's food culture and attract global investments in the food processing sector.
- This event will focus on five key elements, including millets, organic produce, indigenous processed food, nutritional awareness and food processing technologies.
- World Food India 2023' will showcase innovative **Ayush Aahar** products of Ayush.
- 18 start-ups from across the country will present more than 30 Ayush products at the Ministry of Ayush.

Recently on July 24, 2023, the Goa bench of the Bombay HC has directed the Goa government to notify a

Mhadei Wildlife





tiger reserve in Mhadei Wildlife Sanctuary and other contiguous areas within three months.

About Mhadei Wildlife Sanctuary:

Mhadei Wildlife Sanctuary is located in the northern part of Goa, near Valpoi.

- The sanctuary features picturesque waterfalls, including the prominent Vazra Sakla Falls and Virdi Falls.
- Flora: It is densely forested with a variety of moist deciduous and evergreen vegetation, including sacred groves protecting rare and indigenous trees.
- Fauna: The sanctuary is home to a diverse range of wildlife, such as Indian gaur, Barking deer, Sambar deer, Asian palm civet, small Indian civet, Wild boar, Indian hare and more.

Herpetologist's Paradise: The sanctuary attracts herpetologists with all of the 'big four' of Indian venomous snakes - Indian krait, Russell's viper, Saw-scaled viper, and Spectacled cobra.







DAILY pre PARE

Current affairs summary for prelims

3 November, 2023

United Nations Environment Programme

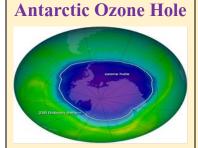


Recently, the UNEP (United Nations Environment Programme) has reported that the adaptation gap in developing countries is expanding, even as extreme weather events continue to worsen.

About United Nations Environment Programme:

- The United Nations Environment Programme is a leading global environmental authority that was established in 1972.
- Its headquarters are located in Nairobi, Kenya.
- It is considered the **highest decision-making body** on environmental matters globally.
- UNEP's key focus areas includes, Climate change, Ecosystem management, Disaster and conflict management, Environmental governance, Resource efficiency, Management of chemicals and waste and Environment under review.
- United Nations Environment Programme plays a pivotal role in setting the global environmental agenda.
- It works to ensure the coherent implementation of the environmental dimension of sustainable development within the United Nations system.

Recently, on September 21, 2023, the Antarctic ozone hole has grown to its largest size at 10 million square miles, according to the observations by NOAA and NASA.



About the Antarctic Ozone Hole:

- The Antarctic ozone hole is as an area where ozone levels fall below the historical threshold of 220
- The ozone layer acts as Earth's natural sunscreen, shielding against harmful ultraviolet rays that can cause health issues like skin cancer and cataracts.

Causes:

- Ozone depletion is primarily due to the release of chemical substances, including chlorine and bromine compounds, into the stratosphere, leading to the breakdown of ozone molecules.
- Chlorofluorocarbons (CFCs) were widely used in consumer products before being phased out under international agreements.
- The eruption of the Hunga Tonga-Hunga Ha'apai volcano in January 2022 had a notable influence on the size of the ozone hole in 2023.

Montreal Protocol:

The 1987 Montreal Protocol is a significant international treaty that has successfully reduced emissions of ozonedepleting substances, contributing to the recovery of the stratospheric ozone layer.

Proteinuria



E-cigarettes

About Proteinuria:

- Proteinuria refers to the presence of an abnormal amount of protein, primarily albumin, in the urine.
- It is a crucial marker used to detect and diagnose kidney disease.
- It can be detected qualitatively using **urine test** strips in routine examinations.
- For precise information, quantitative measurements can be made, often expressed as a protein-tocreatinine ratio.
- Gold standard test is the most accurate measurement of proteinuria involves a 24-hour urine sample to quantify the amount of protein excreted.
- Proteinuria indicates damage to the microscopic vessels (glomeruli) in the kidneys, where proteins like albumin should normally be retained.
- Various drugs, such as ACE inhibitors, ARBs, SGLT2 inhibitors and anti-aldosterone drugs are used to lower proteinuria and slow down kidney damage.

About E-Cigarettes:

- E-cigarettes are also known as electronic cigarettes or vaping devices.
- E-cigarettes typically consist of a battery, an atomizer and a cartridge containing e-liquid, which may contain nicotine, flavourings and other chemicals.
- Though, it less harmful than traditional cigarettes, still pose risks like nicotine addiction and potential health issues.
- Some countries have banned e-cigarettes entirely, while others have implemented restrictions on sales, advertising and use.
- The World Health Organization (WHO) recommends strict regulation of e-cigarettes, including banning advertising and flavourings to protect public health.

About Nicotine:

- Nicotine is a plant alkaloid found in various plants, including the tobacco plant.
- It possesses both sedative and stimulant qualities, impacting the nervous system.
- Karnataka has recently classified nicotine as a Class A poison.

Usage in E-cigarettes:

- Nicotine is directly used in e-cigarettes, with concentrations in e-liquids ranging up to 36 mg/mL.
- In regular cigarettes, nicotine content typically ranges between 1.2 to 1.4 mg/mL.

Face to Face Centres











Place in News

Kozhikode

DAILY pre PARE

Current affairs summary for prelims

3 November, 2023

Kozhikode in Kerala and Gwalior in Madhya Pradesh have been recently included in UNESCO's Creative Cities Network (UCCN) for their contributions in the fields of literature and music, respectively.

About Kozhikode:

- Kozhikode, also known as Calicut, is situated along the Malabar Coast in the state of Kerala, India.
- Kozhikode has been included in the UCCN in the category of "Literature."

Historical Significance:

The city has a rich literary and cultural heritage, known for producing prominent writers, including the author of the first Malayalam novel, Appu Nedungadi, who wrote "Kundalatha" in 1887.

About UNESCO's Creative Cities Network:

- UCCN was established in 2004 to promote collaboration among cities that prioritize for sustainable development.
- It comprises 350 cities across more than 100 countries and aims to harness the creative, social and economic potential of cultural industries.
- UCCN focuses on seven creative fields including crafts and folk arts, design, film, gastronomy, literature, media arts and music.
- Apart from Kozhikode and Gwalior, Varanasi (music), Srinagar (crafts and folk arts) and Chennai (music) are also part of the network.

KOZHIKODE KOZHIKODE

POINTS TO PONDER

- Which Indian-assisted development project connects Mongla Port and Khulna rail network through a broad-gauge rail route? -Khulna-Mongla Port Rail Line
- Which Acts govern the directive related to Payment Aggregators (PAs) and Cross-Border Payments? -Payment and Settlement Systems Act, 2007, and Foreign Exchange Management Act, 1999
- What does CMIP6 stand for? -Coupled Model Intercomparison Project 6
- Which sector has seen an increase in its contribution to agriculture from 24.32% (2014-2015) to 30.87% (2020-21)? -Livestock
- When was the NWR (Negotiable Warehouse Receipt) system launched? 2011

