

Current affairs summary for prelims

07 November, 2022

Air Quality Index (AQI)

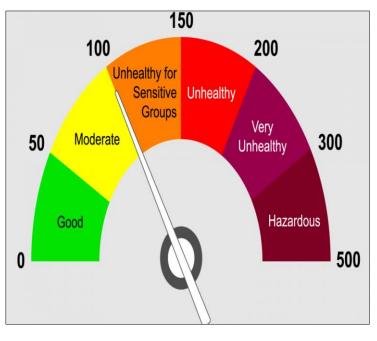
❖ Context

Over the past few days, as the problem of air pollution in Delhi-NCR and surrounding areas has made its annual November-December appearance in policy debates and public discussion, the Air Quality Index (AQI) has been mentioned repeatedly.



About AQI

The colour-coded AQI index was launched in India in 2014.



- It has been developed by the CPCB in consultation with IIT-Kanpur and an expert group comprising medical and airquality professionals.
- It is a measure of how air pollution affects one's health within a short time period.
- It helps the public and the government understand the condition of the air and what subsequent measures are to be taken to combat the situation, based on its severity.
- The Environmental Protection Agency (EPA) calculates the **AQI** for 8 pollutants: PM10, PM2.5, NO2, SO2, CO, O3 (Ozone), NH3 (Ammonia), and Pb (Lead)

Air Quality Index Categories :

- Good (0–50) Minimal Impact.
- Satisfactory (51–100) May cause minor breathing difficulties in sensitive people.
- Moderately polluted (101–200) May cause breathing difficulties in people with lung disease like asthma, and discomfort to people with heart disease, children and older adults.
- Poor (201–300) May cause breathing difficulties in people on prolonged exposure, and discomfort to people with heart disease
- Very Poor (301–400) May cause respiratory illness in people on prolonged exposure. Effect may be more pronounced in people with lung and heart diseases.
- Severe (401-500) May cause respiratory issues in healthy people, and serious health issues in people with lung/heart disease. Difficulties may be experienced even during light physical activity.

Employees' Pension (Amendment) Scheme

Context

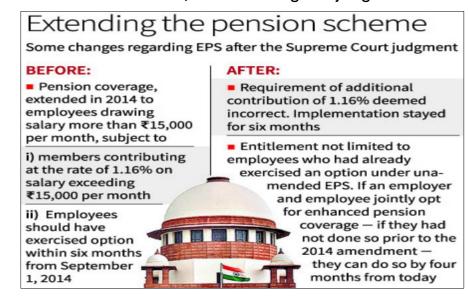
The Supreme Court upheld the Employees' Pension (Amendment) Scheme, 2014 of the Employees' Provident Fund Organisation as "legal and valid" while reading down certain provisions.



About the Scheme

- The Employee's Pension Scheme (EPS) was introduced in the year 1995 with the main aim of helping employees in the organised sector.
- All employees who are eligible for the Employees Provident Fund (EPF) scheme will also be eligible for EPS.
- The Employees' Provident Fund Organisation (EPFO) administers the system.
- It ensures that employees receive a pension after they reach the age of 58.
- The scheme's benefits are available to both existing and new EPF members.
- Both the employee and the employer contribute 12% of the employee's basic salary and Dearness Allowance (DA) to the EPF.
- While the employee's entire part goes to EPF, the employer's contribution goes to EPS at a rate of 8.33 percent.
- As per EPS rules, if an employee has worked for six months or more, his or her service tenure is counted as one year.
- It is governed under the Employees' Provident Funds and Miscellaneous Provisions Act, 1952.

- At that point of time, maximum pensionable salary was Rs 5,000 per month which was later raised to Rs 6,500. The EPS amendment of August 22, 2014 had raised the pensionable salary cap to Rs 15,000 a month from Rs 6,500 a month.
- The Supreme Court used its extraordinary powers under Article 142, while issuing the judgement.





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Distinct Institutions

❖ Context

The University Grants Commission invited stakeholder comments on its draft UGC (Institutions Deemed to be Universities) Regulations, 2022, which will replace the 2019 regulations.



Key Highlights

- The draft regulations create a new category of institutions, known as "distinct institutions".
- These are institutions with focus on :
 - Teaching and/or research in unique discipline(s) or
 - Addressing the strategic needs of the country or
 - Engaged in the preservation of Indian cultural heritage or
 - Preservation of environment or
 - Dedicated to skill development or
 - Dedicated to sports or languages or any other discipline(s).

- These institutions will be **exempted from eligibility criteria** laid down for other higher education institutions to receive "Deemed to be University" status.
- These include :
 - Valid accreditation by the National Assessment and Accreditation Council with at least 3.01 CGPA for three consecutive cycles, or
 - Ranking among top 50 or top 100 given by the National Institute Ranking Framework, or
 - Comply with the requirement of a teacher-student ratio of 1:20.
- The draft regulations also propose that the UGC, and not the Ministry of Education, will now be the authority for granting permission to a Deemed to be University to set up an off-campus centre.

UNESCO World Heritage Glaciers

❖ Context

New UNESCO data highlight the accelerated melting of glaciers in World Heritage sites.

World Heritage Clacions Sentinels of climate change

❖ World Heritage Sites Glaciers

- 50 UNESCO World Heritage sites are home to glaciers.
- A total of 18,600 glaciers have been identified in these 50 sites, covering around 10% of the Earth's total glacierized area.

Key Findings

 Glaciers in a third of the 50 World Heritage sites are condemned to disappear by 2050, regardless of efforts to limit temperature increases.

Examples of Endangered Glaciers by Region

- Africa: Kilimanjaro National Park and Mount Kenya.
- Asia: Three Parallel Rivers of Yunnan Protected Areas (China) highest mass loss relative to 2000 (57.2%) and also the fastest melting glacier on the List, Western Tien-Shan (Kazakhstan, Kyrgyzstan, Uzbekistan).
- Europe: Pyrenees Mont Perdu (France, Spain), the Dolomites (Italy).
- Latin America: Los Alerces National Park (Argentina) #2 highest mass loss relative to 2000 (45.6%), Huascaran National Park (Peru).
- North America: Yellowstone National Park (USA), Yosemite National Park (USA), Waterton Glacier International Peace Park (Canada, United States of America).
- Oceania: Te Wahipounamu South West New Zealand (New Zealand).

Mirabehn

❖ Context

A petition has been filed before the Bombay High Court seeking permission, under the Copyright Act, to translate a book - 'The Spirit's Pilgrimage' by Mahatma Gandhi's disciple Madeleine Slade from English to Hindi.

Key Highlights

- The book is an autobiography of Mirabehn, by the name of Madeleine Slade, who was the daughter of an English aristocratic family.
- Her aristocratic existence took a lifechanging turn after she read French novelist and essayist Romain Rolland's 1924 biography of Gandhi.
- Slade reached India in November 1925 and made India her home for the next 34 years.



- She became one of Gandhi's confidents and an ardent champion internationally for India's freedom from British rule.
- She was arrested multiple times, including during a period of civil disobedience in 1932–33 & in 1942.
- Following Gandhi's assassination in 1948, she stayed in India for 11 years, opened **Gopal Ashram in Bhilangana valley in Uttarakhand** to work on environmental issues.
- She left India in 1959 and died in Vienna in 1982.
 She was conferred with Padma Vibhushan in 1981.





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News in Between the Lines

"Net Zero Carbon Emission" Tourist Destination



❖ Context

The UP government plans to make **Mathura-Vrindavan** a "net zero carbon emission" tourist destination **by 2041**.

Key Highlights

- To attain a net zero carbon emission status, greenhouse gas emissions must be reduced to as close to zero as possible, with any remaining emissions reabsorbed from the atmosphere, by oceans and forests for instance.
- The idea is to form small circuits called **Parikrama Paths** which the pilgrim can undertake either on foot or using electric vehicles.
- The tourist vehicles will be banned from the entire Braj region, which includes famous pilgrim centres such as Vrindavan and Krishna Janmabhoomi.
- All 252 water bodies and 24 forests in the area will also be revived.

Bellairsia Gracilis



❖ Context

A study in Nature finds a near-complete skeleton of an early reptile from the Middle Jurassic period of Scotland.

Key Highlights

- The skeleton is of *Bellairsia gracilis*, a primitive squamate.
- **Squamates** are a group of reptiles that includes more than 10,000 living species descended from a shared common ancestor that lived 240 MYA.
- The fossil may improve our understanding of the anatomical transformations that led to the establishment of the body plan of reptiles such as modern lizards.

Ghaem 100

Context

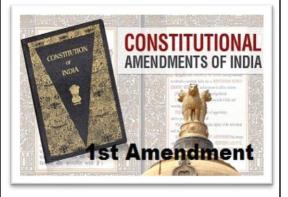
Figure 1 Iran's Revolutionary Guards tested a new satellite-carrying rocket.

Key Highlights



It will be able to place satellites weighing 80 kg in an orbit of 500 km.

First Amendment to the Constitution



❖ Context

Recently, The Supreme Court agreed to examine a plea challenging the expansion of restrictions to the fundamental right to freedom of speech and expression that was made by the first amendment to the Constitution.

Key Highlights

- The petitioner argued that the amendment damages the basic structure doctrine.
- The Constitution (First Amendment) Bill 1951 sought to make several consequential changes with regard to restrictions on the right to free speech.
 - Article 19(1)(a) in Part III of the Constitution guarantees the fundamental right to freedom of speech and expression.
 - This freedom is not absolute or unfettered. It is followed by Article 19(2), which lists exceptions or "reasonable restrictions" on that right.
 - First, The amendmentl **introduced the qualification "reasonable"** to the restrictions that Article 19(2) imposed.
 - Second, the amendment introduced into the Constitution the specific terms "public order" and "incitement to an offence".

Malabar Exercise



Context

> This year marks 30 years of the Malabar exercise.

Key Highlights

- Japan will host the 2022 edition of the Malabar naval exercise in the second week of November.
- Navies of India, Japan, the US & Australia are going to participate in the exercise.
- The Malabar exercise will witness high-tempo drills between the participating platforms in multiple domains.
- Complex surface, sub-surface and air operations, including live firing drills, are scheduled during the exercise

Face to Face Centres



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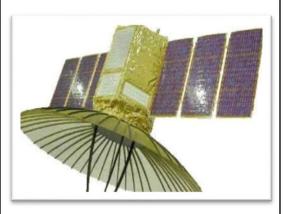
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About Malabar Exercise

- Malabar is a multilateral war-gaming naval exercise that was started in 1992.
- It began as a bilateral exercise between the navies of India and the United States.
- Two more editions of the exercise were carried out in 1995 and 1996, after which there was a break until 2002 in the aftermath of India's nuclear tests.
- From 2002 onward, the exercise has been conducted every year.
- Japan and Australia first participated in 2007, and since 2014, India, the US and Japan have participated in the exercise every year.

RISAT-2 Satellite



❖ Context

Recently, **ISRO's RISAT-2 satellite**, has made an uncontrolled re-entry into the Earth's atmosphere.

❖ About RISAT-2 Satellite

- Risat-2 was built more quickly following the 2008 Mumbai terror attacks due to delay with the indigenously developed C-band for Risat-1 satellite.
- RISAT-2 was launched by the PSLV-C12 launch vehicle in 2009.
- The initial designed life of the satellite was four years.
- Technical Features :
 - RISAT-2 was India's first satellite with a synthetic-aperture radar (SAR).
 - It possess day-night as well as all-weather monitoring capability. Potential applications include tracking hostile ships at sea that are deemed a military threat to India. Media refer to it as a "spy satellite".

EK Janaki Ammal



Context

Recently, 125th birth anniversary of Edavalath Kakkat Janaki Ammal, a pioneering botanist and the first Indian woman to be awarded a PhD in the botanical sciences, was celebrated.

Key Highlights

- Born in Thalassery in Kannur district of Kerala in 1897.
- She **moved to Madras** (now Chennai) to obtain her Bachelors and Honors degrees at the Queen Mary's and Presidency College respectively.
- In 1925, at the University of Michigan in the USA where she did research on plant cytology (which focuses on the structure and function of cells), Janaki Ammal obtained a Master's degree.
- She worked on making several intergeneric and interspecific hybrids involving sugarcane and related grass species. She is believed to have been responsible for creating sugarcane hybrids that yielded sweeter sugar.
- The range of roles she worked at included serving as the head of the Central Botanical Laboratory in Allahabad and as an Officer of Special Duty at the Regional Research Laboratory in Jammu and Kashmir.
- Her association with the Save the Silent Valley movement was well-known.
 - It was a campaign to stop a hydroelectric project from flooding the Silent Valley forest in Palakkad district of Kerala.

New Honeybee Species, Endemic To Western Ghats, Found



Daily Current AffairsDaily Pre PARE Daily MCQ Quiz

Context

Recently, a new species of endemic honeybee has been discovered in the Western Ghats.

Key Highlights

- The new species has been named Apis karinjodian and given the common name Indian black honeybee.
- The distribution of Apis karinjodian ranges from the central Western Ghats and Nilgiris to the southern Western Ghats, covering the States of Goa, Karnataka, Kerala and Tamil Nadu.
- It is after a gap of more than 200 years that a new species of honeybee has been spotted in the Western Ghats. The last honeybee described from India was Apis indica in 1798 by Fabricius.
- The species has been classified as near threatened in the State based on the IUCN Red List Categories and Criteria.

Face to Face Centres