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TO BEAT CHINA, INDIA MUST ENGAGE WITH APEC

Context

- The 2023 Asia Pacific Economic Cooperation (APEC) summit was held in San Francisco last week. The US hosted APEC after a gap of 12 years.
- Despite being in the same region, India is not a part of APEC but India needs to engage with aspects of APEC so that its economic goals can be met.

The Asia Pacific Economic Cooperation (APEC)

- The APEC is a **regional economic** forum that was formed in **1989.The objective of the grouping is to** leverage the growing interdependence of the Asia-Pacific and create greater prosperity for the people of the region through regional economic integration.
- The focus of APEC has been on trade and economic issues and hence, it terms the countries as "economies."
- It has been operating based on non-binding commitments with decisions taken through commitments and consensus undertaken on a voluntary basis.
- Currently, APEC has **21 members**. The criterion for membership, however, is that **each** member must be an independent economic entity, rather than a sovereign state.

Significance of APEC

- APEC accounts for nearly 62 per cent of global GDP and nearly half of global trade.
- Since its formation, the grouping championed the lowering of trade tariffs, free trade, and economic liberalisation.
- As per the US State Department, during its first five years of operation, APEC established its core objectives.
- In the Seoul Declaration (1991), APEC member economies proclaimed the creation of a liberalised free trade area around the Pacific Rim as the principal objective of the organisation.

Reason Why India is Not a Member of APEC





APEC's Resistance to Protectionism

- Although many members have been in favour of the inclusion of India, some opposed the idea citing the economic reforms which took place in the country and claiming that it has 'protectionist instincts'.
- APEC's guiding motive was to resist protectionist policies by individual member states, and the promotion of trade liberalisation and economic cooperation within the affiliated Asia-Pacific economies.
- o By that description, India did not seem to fit in.
- India's Record on Economic Reforms and WTO Engagement: The main impediment has been the opposition of some participants who have held India's record on economic reforms and WTO engagement to be unsatisfactory.
- Membership freeze: Another reason for not making India part of the grouping was a membership freeze which came into force in 1997. However, it was not extended in 2012.

Conclusion

- APEC has strategically emphasised sustainability, inclusion, resilience, and innovation as key focal points. India shares these objectives, and by aligning with APEC's priorities, it can enhance its economic trajectory.
- Considering APEC's emphasis on sustainability and innovation, India can present itself as an alternative for new Foreign Direct Investment (FDI) when compared to China.
- This alignment positions India as a proactive participant in the region's economic dynamics. Therefore, India must increase its engagement with APEC to beat China to have strategic edge in the region.

AGNI INITIATIVE

Recently, the Central Council for Research in Ayurveda Sciences (CCRAS), Ministry of Ayush, launched the "Ayurveda Gyan Naipunya Initiative" (AGNI) for physicians practising in the field of Ayurveda.







About the AGNI Initiative:

• Aim: To provide a platform for Ayurveda practitioners to report their innovative practises and experiences in various disease conditions, along with promoting the culture of evidence-based practise among Ayurveda practitioners.

• Objectives of the Initiative

- To promote the culture of reporting evidence-based practise among Ayurveda practitioners.
- To document the reported successful therapeutic regimens for various disease conditions involving single drug/ Formulation/ Procedures for the purpose of education and academics.
- To identify interested Ayurveda practitioners for collaboration in the creation of

 a database through applications and capacity building through training in
 research methods and good clinical practises.
- To undertake research for mainstreaming pragmatic practises through scientific validation and evidence-based appraisal

Key Facts about Central Council for Research in Ayurveda Sciences

- It is an autonomous body under the **Ministry of AYUSH**, Govt. of India.
- It is an apex body in India for undertaking, coordinating, formulating, developing, and promoting research on scientific lines in Ayurvedic sciences.
- The research activities of the Council include **Medicinal Plant Research** (Medico-Ethno Botanical Survey, Pharmacognosy, and Tissue Culture), **Drug Standardization**, Pharmacological Research, Clinical Research, Literary Research and documentation and Tribal Health Care Research Programme.
- **Headquarter:** New Delhi





25 YEARS OF THE INTERNATIONAL SPACE STATION

Why in the news?

• The International Space Station (ISS) turned 25 years old on November 20, 2023. The first module of the ISS launched into orbit in 1998.

What is the International Space Station (ISS)?

- ISS is a large spacecraft in low Earth orbit.
- It is a habitable spacecraft that orbits Earth at an average altitude of approximately 420 kilometers (260 miles).
- It serves as a unique and collaborative space laboratory, research facility, and living space for astronauts and cosmonauts from various countries.

What are the features of ISS?

• Construction and Ownership

- The major partners include NASA (United States), Roscosmos (Russia), ESA (European Space Agency), JAXA (Japan Aerospace Exploration Agency), and CSA (Canadian Space Agency).
 - In 2022, Russia announced that it would pull out of ISS after 2024 and focus on building its orbiting outpost.
- These agencies have contributed modules, components, and resources to construct and maintain the station.

• Size and Structure

- The ISS is quite large, with a mass of around 460 tons and a habitable volume roughly equivalent to the interior of a Boeing 747 aircraft.
- It consists of various interconnected modules and components, including laboratories, living quarters, and docking ports.

• Orbit and Duration

It travels at 8 kilometers (5 miles) per second. This means it orbits Earth every 90 minutes.





- It passes over our heads 16 times every 24 hours traveling through 16 sunrises and sunsets.
- Missions typically last six months, although some crew members may stay for shorter or longer durations.

• International Crew

- The ISS is continuously inhabited by a rotating crew of astronauts and cosmonauts from different nations.
- These crew members live and work on the station for several months at a time, conducting experiments, maintaining systems, and performing various tasks necessary to keep the station operational.

Why Is the Space Station Important?

- One of the primary purposes of the ISS is to conduct scientific research and experiments in the unique microgravity environment of space.
 - Microgravity is often referred to as **near-zero gravity or weightlessness**.
- Researchers from around the world use the station to study a wide range of fields, including biology, physics, astronomy, and Earth sciences.
- The ISS has contributed to our understanding of topics such as human health in space, materials science, and climate change.
- Human beings have been living in space every day since the first crew arrived.

How long will the ISS be operational?

- Plans for the future operation of the ISS were thrown into uncertainty with the start of Russia's invasion of Ukraine in early 2022.
- Both the European Space Agency and national bodies withdrew from international collaborations with Russia.
- Later, Russia said it was leaving the ISS to build its own space station.
- Also, old and new space faring nations want to make an independent mark on space.
 They include Japan, China, India, the United Arab Emirates and others.





- The US and Europe have said they remain committed to the International Space Station through 2030.
- But plans are afoot for a post-ISS world, as well:
 - NASA is almost entirely focused on its Artemis program and plans to populate the moon.
 - ESA is working toward a new space station, which it is calling Starlab.

WHAT IS AT STAKE AT COP 28

Why in News?

- The 2023 UN Framework Convention on Climate Change (UNFCCC) will convene from 30 November to 12 December 2023 in Dubai, United Arab Emirates (UAE).
- It will comprise:
 - The 28th meeting of the Conference of the Parties (COP 28);
 - The 5th meeting of the COP serving as the Meeting of the Parties to the Paris Agreement (CMA 5);
 - The 18th meeting of the COP serving as the Meeting of the Parties to the Kyoto Protocol (CMP 18); etc.

Background to the COP 28:

- There is an almost **linear relationship** between global warming and cumulative carbon dioxide (CO2) emissions.
- The UNFCCC in 1992 noted that per capita emissions in developing countries are still "relatively low" and that their share in the global emissions will grow to meet their social and developmental needs.
- The Convention recognises the 'common but differentiated responsibilities and respective capabilities' (CBDR-RC) principle.
 - o This means different States have different responsibilities and respective capabilities in tackling climate change.





- This principle has been reaffirmed in the **Paris Agreement** (COP 21), whose main aim is
 - To hold the increase in the global average temperature to well below 2 degrees C above pre-industrial levels and
 - o To pursue efforts to limit the temperature increase to 1.5 degrees C above preindustrial levels.

Who's Responsible for Cumulative Global Emissions?

- According to the IPCC AR6, the developed countries have appropriated a disproportionately larger share of the global carbon budget to date.
- The contribution of South Asia (which includes India) to historical cumulative emissions is only around 4% despite having almost 24% of the entire world population.
- The per capita CO2-FFI (fossil fuel and industry) emissions of South Asia was just 1.7 tonnes CO2-equivalent per capita, far below North America (15.4 tonnes CO2-eq. per capita) and also significantly lower than the world average (6.6).

What Should India's Stance be at COP 28?

- The Indian government has led from the front to **foster international consensus to** tackle climate change.
- To this end, India has set up the International Solar Alliance, the Coalition for Disaster Resilient Infrastructure, and the Global Biofuel Alliance.
- Through the 'Lifestyle for Environment' (LiFE) mission, the Indian government also aims to spread awareness of good lifestyle practices and establish that sustainable lifestyles are the best way forward.
- At COP28, India must demand a fair share of its carbon budget or equivalent reparations to bring about fairness within the global order.

Challenges and Way Ahead:





- In almost all the emissions scenarios estimated by the IPCC, the world breaches an increase of 1.5 degrees C from pre-industrial levels in the early 2030s.
- The world is still largely powered by non-renewable energy. In 2022, oil, coal and gas accounted for 30%, 27% and 23% of the world's total energy, while solar and wind energy together contributed only 2.4%.
- **Development is the first defence against climate change.** How long will developing countries have to divert their scarce resources, manpower, and attention to meeting global problems created by developed countries?
- **Until developed countries** themselves undertake mitigation efforts in their own backyard, the exercise will be pointless.
- It is imperative that developing countries receive a fair and equitable share of their carbon budget alongside stronger and more fruitful commitments from developed countries.
 - o This includes a promised but unmet climate-specific new and additional finance.

INVESTOR RISK REDUCTION ACCESS PLATFORM

Recently, the chairperson of the Securities and Exchange Board of India (SEBI) launched the Investor Risk Reduction Access platform.



About the Investor Risk Reduction Access Platform:

- It has been developed to **reduce risks faced by investors** in the eventuality of technical glitches at the trading member's end at both the primary site and disaster recovery site.
- Its purpose is to provide investors with an **opportunity to square off/close their open positions** and cancel pending orders using the IRRA platform in case of technical glitches or unforeseen outages that render the trading member's site inaccessible.
- It has been designed to reduce risks for investors participating in the market.
- It is not meant for taking fresh positions or orders, but only to cancel the pending orders.





- This platform will be available to trading members supporting internet-based trading
 (IBT) and Security Trading through Wireless Technology (STWT) for their investors.
 However, it will not be accessible for algo trading and institutional clients.
- It has been **jointly developed by all the stock exchanges** BSE, NSE, NCDEX, MCX and Metropolitan Stock Exchange of India (MSE)

How will this platform work?

- Stock exchanges can also monitor parameters like **connectivity**, **order flow**, **and social media posts**, and Suo moto initiate the enablement of the IRRA service if needed, irrespective of any such request by the trading member.
- This service shall be enabled by the exchanges, Suo moto, only in case of disruption of trading services of trading member across all the exchanges, where the trading member is a member
- On invocation, after basic checks, the platform downloads trades of the trading member from all the trading venues and sends SMS/email to investors using internet trading or wireless technology, along with a link to access IRRA.
- Once the trading member is migrated to the IRRA platform, the investors of the affected trading member will be enabled to access the IRRA platform through a secure login system using their Unique Client Code (UCC) or investor's PAN number.