





- QS World University Rankings: Recently, IIT Delhi achieved a major milestone by becoming the highest-ranked Indian institution in the QS World University Rankings 2026, climbing 27 places to secure the 123rd global position.
 - This marks the first time since 2018 that IIT Delhi has surpassed IIT Bombay, which had topped among Indian institutes in six of the past ten editions.
 - Key Highlights: IIT Bombay slipped 11 spots to 129th, last year's highest Indian rank holder.
 - o IIT Madras made it to the top 200 for the first time, now ranked 180 (up from 227).
 - o MIT ranked 1st globally for the 14th consecutive year.
 - Top 5 globally: Massachusetts Institute of Technology, Imperial College London, Stanford, Oxford, Harvard.
 - India ranked 4th in total institutions listed (54), after USA (192), UK (90), and China (72).
 About OS World University Rankings: Published by OS Quacquarelli Symonds, a leading global
 - higher education consultancy. Ranks the world's top 1,000+ universities each year.
 - About QS Quacquarelli Symonds: It is a prominent global provider of services, analytics, and insight to the higher education sector worldwide.
 - Focus: On delivering valuable support and resources to the global higher education community.
 - Mission: To empower individuals from all over the world to achieve their full potential by facilitating educational success, promoting international mobility, and aiding in career development.
 - 10 indicators: Academic reputation, faculty student ratio, international relation network, international faculty, students, and outbound exchange students etc.
- Operation Sindhu: Recently, as tensions grew between Iran and Israel, India started Operation Sindhu to bring back over 4,000 Indians, including many students, from Iran safely.
 - · Key Highlights: First batch of 110 students was evacuated from northern Iran to Armenia .
 - These students flew from Yerevan to Delhi and evacuations are supervised by Indian missions in Iran and Armenia.
 - Ministry of External Affairs(MEA) stated that Indian nationals are being moved from conflict zones to safer areas within Iran before evacuation.







- o 24×7 control room set up by the Ministry of External Affairs (MEA) in New Delhi.
- Indians in Iran advised to stay in contact with the Indian Embassy in Tehran via emergency helplines.
 - India coordinating with Armenia, Turkmenistan, Iraq, and using possible sea routes via Persian Gulf.
 - o Some Indian students injured in a strike, as confirmed by Iranian embassy officials.
 - $\circ\;$ Government appreciated cooperation by Iran and Armenia in facilitating the evacuation.
- Ocean Darkening: A recent scientific study has raised alarms about a growing threat to oceanic ecosystems — ocean darkening.
 - According to the findings, more than 20% (1/5th) of the world's oceans have darkened significantly over the past two decades, potentially triggering profound consequences for marine life and global climate regulation.
 - About Ocean darkening: Refers to the reduction in sunlight penetration into ocean waters, leading to the shrinking of the photic zone — the upper layer (up to ~200 meters) where sunlight enables photosynthesis, which supports marine life.
- Significance of the Photic Zone: It supports nearly 90% of the world's marine life by enabling photosynthesis.
 - o It plays a crucial role in regulating the global climate through carbon absorption.
 - o It boosts ocean productivity and helps sustain global fisheries.
 - Causes of Ocean Darkening: Increased runoff of agricultural nutrients, organic matter, and sediments due to rainfall.
 - o Formation of algal blooms, which block sunlight and reduce water clarity.
 - o Changes in plankton dynamics, including behavior and density.
 - o Rising sea surface temperatures affecting light penetration.
 - o Disruptions in ocean circulation patterns that impact water clarity and light distribution.
 - Impacts on Marine Ecosystems: Shrinking photic zones force species that rely on sunlight/moonlight cues for feeding, movement, and reproduction into shallower waters.
 - Results in greater competition and may disrupt marine food webs, even in areas with low fishing pressure.







- 4. Performance Grading Index (PGI) 2.0 Report (2023–24): Recently, the Ministry of Education released the Performance Grading Index (PGI) 2.0 for the academic year 2023–24, assessing states and union territories on a 1,000-point scale based on key indicators of school education performance.
 - Key Findings: Top Performer: Chandigarh secured the highest score of 719, placing it in Grade Prachesta-1 (score range: 701–760).
 - Bottom Performer: Meghalaya scored 417, placing it in Grade Akanshi-3 (score range: 401–460).
 - o 24 States/UTs showed improvement in their performance compared to the previous year.
 - No State/UT crossed into the highest grade range of 761–1000, indicating room for improvement across the board.
 - o Bihar and Telangana recorded the most notable improvement in access to education.
 - Delhi, Jammu & Kashmir, and Telangana made the highest progress in infrastructure development.
 - About PGI: A data-driven assessment tool designed to evaluate the performance of school education systems across States and Union Territories in India.
 - Launched in: 2017; the updated PGI 2.0 version is aligned with the National Education Policy (NEP) 2020 and the Sustainable Development Goals (SDGs).
 - o Published by: Ministry of Education, Government of India.
 - Coverage: Assesses performance across 6 key domains using 73 indicators: Learning Outcomes, Access, Infrastructure & Facilities, Equity, Governance Processes and Teacher Education & Training
 - Grading Scale: Total score is out of 1000 points, divided into 10 performance grades from Daksh (highest) to Akanshi-3 (lowest).
- Invasive Alien Species (IAS): Recently, as global trade adapts to new bilateral agreements and changing tariffs, a growing concern has emerged: the rising spread of Invasive Alien Species (IAS).
 - A new analysis warns that these biological intrusions, often unintentionally introduced via trade routes, pose significant risks to biodiversity, food security, public health, and economic stability.







- Key Highlights: The giant African snail, introduced in colonial Calcutta (c. 1847), is one of India's earliest and most damaging IAS cases.
 - Deliberate introductions (e.g., cane toads in Australia, mosquitofish and guppies in India) for biocontrol have often backfired.
 - Biofouling during maritime trade allows aquatic species like the Asian paddle crab to travel undetected.
 - India's import of PL 480 wheat (1955) introduced Parthenium, a toxic invasive plant now found nationwide.
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 o Introduction of **Tilapia** for food security displaced native freshwater species in Indian rivers.
- About IAS: These species are not native and are introduced through human activities such as
 - agriculture, aquaculture, pet trade, or transport (like ballast water).

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 - Key Characteristics They reproduce rapidly, enabling them to spread quickly and dominate new habitats.
 - ✓ They often thrive due to the absence of natural predators or competitors in the introduced environment.
 - ✓ Their broad environmental tolerance allows them to survive in extreme or varied climatic conditions.
 - They can disrupt ecosystem functions by altering processes like nutrient cycling, fire patterns, and habitat structure.
- Rudrastra: Recently the Indian Army successfully tested Rudrastra, a cutting-edge battlefield drone developed indigenously by Solar Aerospace and Defence Limited (SDAL).
 - About Rudrastra: Hybrid Vertical Take-Off and Landing (VTOL) drone that combines helicopter-style take-off with fixed-wing cruising, ensuring high versatility and stealth.



- It is designed for deep strike missions, capable of targeting enemy artillery positions or terrorist camps far behind enemy lines.
- The drone is armed with smart anti-personnel warheads, allowing for precise strikes on enemy troops and positions.







- It can engage targets over 50 km away and demonstrated a range of 170 km during tests at Pokhran, remaining airborne for about 90 minutes.
- Rudrastra can relay real-time video during its mission and autonomously return after the strike.
- strike.
 It also successfully dropped an airburst munition, which detonated close to the ground,
- inflicting wide-area damage ideal for neutralizing enemy camps or artillery batteries.

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- The drone offers the Army a stand-off strike capability, allowing it to hit critical targets from a safe distance without endangering soldiers.
- Global Energy Monitor (GEM): Recently, a report by the Global Energy Monitor (GEM) ranked India fourth globally for its potential to generate solar energy from abandoned coal mines, highlighting a promising opportunity for clean energy transition.
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- Key Highlights: 63 disused mine sites identified across India, spanning 500+ sq. km, with
 potential to generate 27.11 GW of solar power (~37% of current installed capacity).
 - Telangana, Odisha, Madhya Pradesh, and Chhattisgarh among top 20 global regions with highest land availability for solar conversion, jointly offering over 22 GW potential.
 - Globally, 288 GW of solar potential identified across 28 countries with recently closed/open-pit coal mines.
 - Global progress: China leads with 90 coal-to-solar projects (14 GW) and 45 more underway (9 GW).
 - o 15 countries have launched renewable projects on former coal mines.
 - About GEM: an independent research organization supporting the global shift to clean energy.
 - It produces databases, reports, and tools to help track and understand the global energy landscape.
 - o Promotes data transparency and open access to energy system information worldwide.
 - Its data is widely used by key global institutions, including: International Energy Agency (IEA), United Nations Environment Programme (UNEP), World Bank and Bloomberg Global Coal Countdown.