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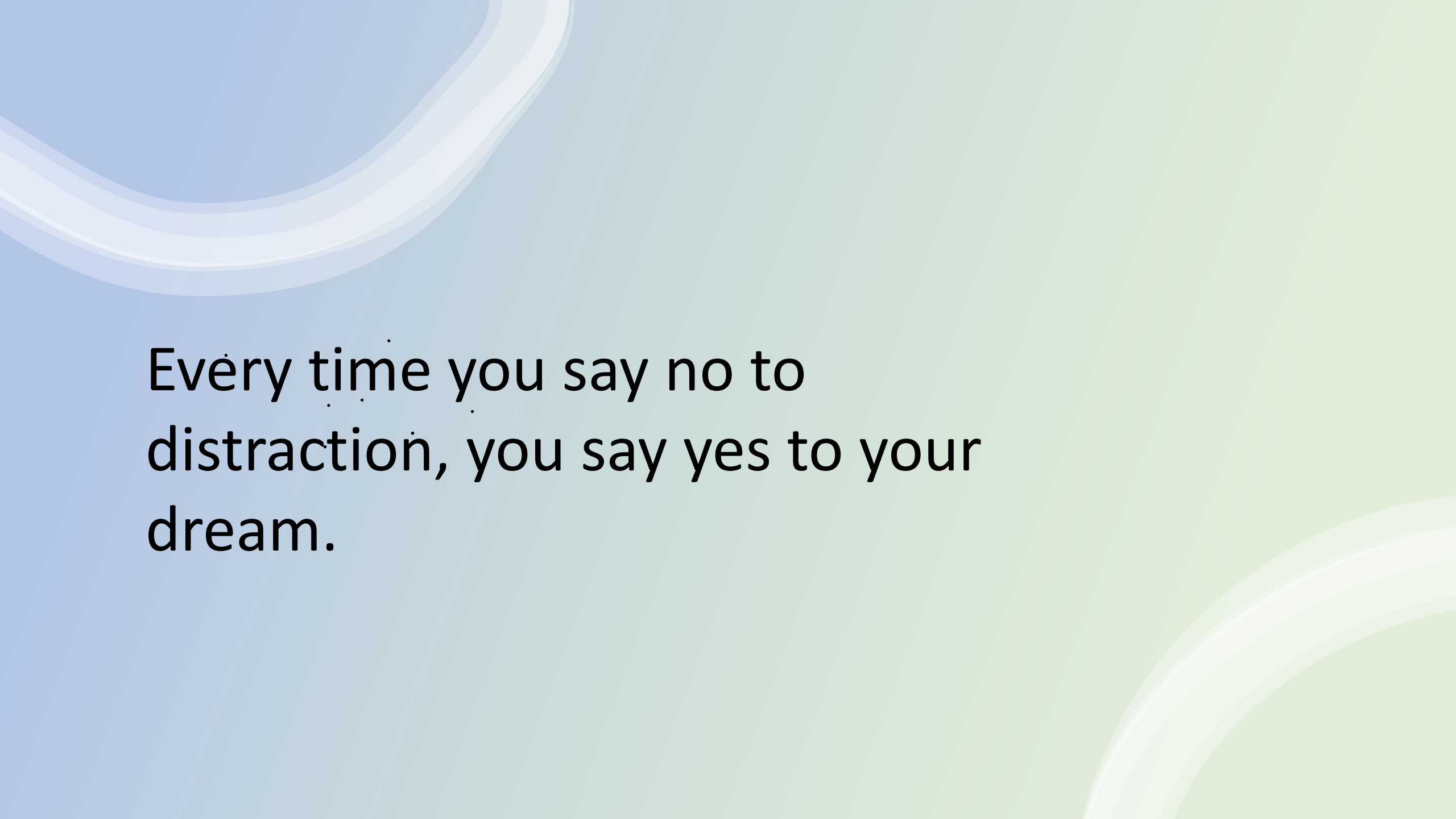


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LIVE QUIZZES TESTS CLASSES

IN FOCUS
Stroke a public health priority
WHA passes resolution on stroke, seeking stronger preventive action, treatment, and rehabilitation
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How India uses healthcare: Insights from the NSS
SCIENCE PAGE 10

What did the Supreme Court say about bail under UAPA?
FAQ PAGE 6

Skipper Shreyas keeps Kings in the hunt
SPORT PAGE 11

INSIDE
Vinash can take part in Asian Games trials: HC
NEW DELHI
The Delhi High Court, in an order passed on Friday, had allowed wrestler Vinash Phogat to participate in the Asian Games selection trials, on May 30 and 31, while enjoying the blessing of the Federation of India for acting in a "voluntarist" manner against the 2021 Paris Olympic ban. A page 21



CM promises NIA probe into Naga men's abduction
GUWAHATI
Assam Chief Minister Sarbananda Sonowal announced on Friday that his government would launch a probe into the alleged abduction of six Naga men by NIA extremists, as the hostage crisis continued to keep the State on edge. A page 21



At least 90 killed, in blast at coal mine in China
BEIJING
A gas explosion at a coal mine in northern China has killed at least 90 people, state media reported on Saturday, the country's biggest mining disaster in 11 years. A total of 247 workers were underground at the time of the blast at the Luohanyu coal mine in Shanxi province. A page 13

Petrol and diesel prices hiked third time in 8 days

Rising crude oil prices and disruptions in energy supplies due to the West Asia conflict continue to push up prices, Kolkata records a steeper hike, while petrol in Delhi nears the 100-0-litre mark.

Rangarajan Ghosh
NEW DELHI
Prices of petrol and diesel were raised for the third time in eight days on Saturday, this time by an average of 90 paise per litre across all variants. The price of compressed natural gas (CNG) in several parts of North India also rose for the third time within the same interval, this time by 11 kg.

Fuel on the boil
The price of petrol and diesel in four metros after the latest hike

City	Petrol (per litre)	Diesel (per litre)
Delhi	101.11 (14.87)	78.94 (14.87)
Kolkata	118.54 (15.94)	94.49 (15.94)
Mumbai	118.49 (16.92)	94.49 (16.92)
Chennai	105.41 (14.87)	82.28 (14.87)

CNG
Delhi: 52.88 (14.87)
Kolkata: 47.91 (14.87)
Mumbai: 46.62 (14.87)
Chennai: 39.39 (14.87)

Oil prices more expensive at ₹17.52 per litre. In Mumbai, petrol prices increased by 80 paise to ₹108.49 per litre, while diesel rose by 94 paise to ₹94.49 per litre. Prices of petrol in Chennai rose by 82 paise to ₹105.41 per litre, while diesel became 87 paise cheaper at ₹82.28 per litre. With the latest 41 per kg hike, CNG in Uttar Pradesh's Ghazipur and Noida is now priced at ₹18.70 per kg, and in Mumbai it costs ₹18.28 per kg.

Further, the benchmark Brent crude futures (July) settled about 0.62% higher at \$104.25 for every barrel on Friday. On Saturday, Kolkata saw a 41 per cent increase in the price of petrol in Delhi rose by 87 paise to ₹108.11 per litre, and that of diesel by 91 paise to ₹92.49 per litre. CNG in the National Capital Territory (NCT) of Delhi is now priced at ₹18.60 per kg. The hikes follow increased pressure on oil marketing companies (OMCs) due to rising crude oil prices, as energy supplies continue to be disrupted because of the conflict in West Asia. India's crude oil basket averaged \$107.96 per barrel in May until Friday. Further, the benchmark Brent crude futures (July) settled about 0.62% higher at \$104.25 for every barrel on Friday. On Saturday, Kolkata saw a 41 per cent increase in the price of petrol in Delhi rose by 87 paise to ₹108.11 per litre, and that of diesel by 91 paise to ₹92.49 per litre. CNG in the National Capital Territory (NCT) of Delhi is now priced at ₹18.60 per kg. The hikes follow increased pressure on oil marketing companies (OMCs) due to rising crude oil prices, as energy supplies continue to be disrupted because of the conflict in West Asia. India's crude oil basket averaged \$107.96 per barrel in May until Friday. Further, the benchmark Brent crude futures (July) settled about 0.62% higher at \$104.25 for every barrel on Friday. On Saturday, Kolkata saw a 41 per cent increase in the price of petrol in Delhi rose by 87 paise to ₹108.11 per litre, and that of diesel by 91 paise to ₹92.49 per litre. CNG in the National Capital Territory (NCT) of Delhi is now priced at ₹18.60 per kg. The hikes follow increased pressure on oil marketing companies (OMCs) due to rising crude oil prices, as energy supplies continue to be disrupted because of the conflict in West Asia. India's crude oil basket averaged \$107.96 per barrel in May until Friday.

Monsoon rush



Men run for cover during heavy pre-monsoon rain in Fort Kochi on Saturday. (Photo: Anand)

Larger, poorer States set for higher funds under new rural employment scheme

The Hindu Bureau
NEW DELHI
Larger, poorer States are set to get higher funding under the Centre's new rural jobs scheme, with draft rules for the Viksit Bharat Guarantee for Rोजgar and Aajeevika Mission (VB-G-RAM-G) proposing to use the 10th Finance Commission's horizontal devolution formula to determine Central allocations. From next year, an unknown percentage of funds will also be allocated on the basis of how well States have implemented the scheme. These are among the proposals laid out in a 10-page draft rules notified

over the last two days for the VB-G-RAM-G law, which is not to come into effect from July 1, replacing the 20-year-old Mahatma Gandhi National Rural Employment Guarantee Act. Apart from the allocation formula, the rules address provisions for grievance redressal mechanisms, institutional and administrative frameworks, and transitional provisions to govern the switchover from the UPA-era MGNREGS Act. One of the key features of the VB-G-RAM-G legislation passed by Parliament was that it shifts away from MGNREGS's demand-based approach, which was meant to stretch the

scheme's budget to match demand on the ground. Further, while the Centre funded 100% of the wage bill under the MGNREGS, the VB-G-RAM-G has divided this expenditure between the Centre and States at a 60:40 ratio for most States. In the draft rules spelling out the "objective parameters" for normative allocation to States under the new law, the Centre said that each fiscal year's allocation would be based on the "objective parameters" used for horizontal devolution among States as recommended by the Sixteenth Finance Commission.

The new guarantee
The draft rules spell out the "objective parameters" for the new law, which is set to come into effect from July 1. Allocation to States will be based on the 10th Finance Commission's demand-based approach. A National Level Steering Committee and Central Finance Budget Guarantee Council will guide allocations, monitoring, and implementation. This devolution formula is based on metrics with different weights, including the 2011 Census population, demographic

The maximum weightage is given to the GDP per capita (42.5%), which of the poorest States, effectively prioritising poor or States. The next highest weightage is given to population (27.5%), benefitting larger States, while all of the other will carry a 10% weightage each in this formula. Performance matters: However, the draft rules added that a part of the normative allocation from the second year will be based on "performance" including the 2011 Census population, demographic

performance, forest, area, per capita Gross Domestic Product, and contribution to Gross Domestic Product. "compliance with social audit requirements", "percentage of completion of work", and "any other performance-related indicators" that the Centre chooses to notify. The draft rules do not mention how much of the normative allocation will be based on these performance metrics. The draft rules provide for "ongoing works under MGNREGS, settling pending balances, transferring records, and implementing worker rights during the transition period. It also notes that existing e-KYC-verified MGNREGS job cards will remain temporarily valid

until new Gramin Rojgar Guarantee Cards are issued, while fresh work cards may also be issued if ongoing projects are unaffordable to meet labour demand. The draft rules also mention how much of the normative allocation will be based on these performance metrics. The draft rules provide for "ongoing works under MGNREGS, settling pending balances, transferring records, and implementing worker rights during the transition period. It also notes that existing e-KYC-verified MGNREGS job cards will remain temporarily valid

India important to U.S. Indo-Pacific policy: Rubio

The Hindu Bureau
NEW DELHI
India plays an important role in the U.S. Indo-Pacific strategy, U.S. Secretary of State Marco Rubio, who met and invited Prime Minister Narendra Modi to Washington later this year, said on Saturday.



Prime Minister Narendra Modi with U.S. Secretary of State Marco Rubio during a meeting, in New Delhi, on Saturday. PTI

Mr. Rubio, who began his four-day trip to India on Saturday morning, will hold bilateral talks with External Affairs Minister S. Jaishankar on Sunday and attend the Quad Foreign Ministers' Meeting (QFMM) along with Ministers from Australia and Japan on Tuesday. One of his statements in India was to "renew" the Quad engagement. Mr. Rubio said, crediting Mr. Modi and U.S. Treasury Secretary Steven Mnuchin as drivers of the India-U.S. engagement. Mr. Rubio hailed PM Modi on "peace efforts" and "reiterated the call for peaceful resolution of the conflict through dialogue and diplomacy".

Quad meet
This is the third time the Quad Foreign Ministers will meet since Mr. Trump returned to power, as they met in January and July 2020.

However, they have not so far been able to schedule a date for the Quad Summit, due to be held in India for the past two years, partly due to the strain in ties between both countries over American tariffs, sanctions, and visa restrictions, as well as Washington's claims of having notified the India-Pakistan ceasefire in 2020, which New Delhi has denied. "My very first meeting officially as Secretary of State was a meeting of the Quad. We are going to renew that," Mr. Rubio said, speaking at an event at the

"The Secretary emphasized that the U.S. will not let Iran hold the global energy market hostage and affirmed that U.S. energy products have the potential to diversify India's energy supply," he said. The QFMM statement said Mr. Modi had stated India's "consistent support for peace efforts" and "reiterated the call for peaceful resolution of the conflict through dialogue and diplomacy".

The timing of the event, however, coincided with new U.S. restrictions on H-1B visas and regulations, mandating Permanent Resident Card applicants leave the U.S. and complete their applications in their home countries, which would mean considerable allocation for Indian professionals. On Saturday evening, Mr. Rubio attended a reception in his honour hosted by Mr. Gaa, where External Affairs Minister S. Jaishankar and Foreign Secretary Viji Prasad were present. RELATED REPORT ON PAGE 6

IN BRIEF



Centre asks Delhi Gymkhana Club to vacate by June 5

The Delhi Gymkhana Club has been asked by the Union Urban Affairs Ministry to hand over its premises by June 5 as it has a 25.3-acre plot was required for "strengthening and securing defence infrastructure". The club stands adjacent to the Prime Minister's residence on the Lok Kalyan Marg in the national capital. The premises, located in a highly sensitive and strategic area of Delhi, is critically required for the strengthening and securing of defence infrastructure and other vital public security purposes, an order issued by the Land & Development Officer (LADO) under the Union Housing and Urban Affairs Ministry said.

Seven arrested as U.P. STF busts SSC exam-rigging racket

The Uttar Pradesh Special Task Force has busted an alleged racket involved in rigging Staff Selection Commission (SSC) online recruitment exams using proxy servers and dummy candidates, arresting seven people from Greater Noida, officials said on Saturday. The accused were manipulating SSC examinations for recruitment of constables in the Central Armed Police Forces and Secretariat Security Force, and officers in the Arunachal, at an online exam centre operating under the name "Bhaiji Digital Zone" in the Knowledge Park area. The racket was busted on Friday. The STF seized 100 lakh in cash, five laptops, and other items from them.

Nagaland steps up ASF curbs; pork sale banned in districts

The government has intensified surveillance and containment measures following the outbreak of African swine fever (ASF) in various parts of Nagaland, while several districts imposed bans on the transport, transmigration, and sale of pigs and pork products. The Directorate of Animal Husbandry and Veterinary Services has been closely monitoring the situation through district veterinary officers and field staffers who are actively engaged in surveillance, containment, awareness campaigns, sample collection and implementation of bio-security measures to prevent further spread of ASF, an official statement said in Kohima.

NCW takes up U.P. teen's suspected honour killing

The National Commission for Women (NCW) on Saturday took up the death of a 17-year-old girl related to the brutal murder of a teenager from Rudraigarh in Uttar Pradesh whose mutilated and decapitated body was found in a train coach at a station in Lucknow. In a statement, the NCW said reports had raised suspicion of a possible "honour killing" or "hate crime" behind the incident. A man, with the help of his sister and mother in law, allegedly killed his 17-year-old daughter over an interfaith relationship. According to the police, the man first assaulted his daughter. After she alleged an attempted suicide, he conspired with his relatives to kill her.

SUDOKU

	7			19				
				4	5			
9		2						1
	3	9						8
	8	6		9				7
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DIFFICULTY RATING: ★★★★★

Solution to yesterday's Sudoku

6	7	3	2	4	8	1	5	9
8	1	5	9	7	6	4	2	3
4	9	1	7	3	8	6	2	5
3	8	1	7	2	6	9	4	5
5	2	4	8	6	3	9	7	1
1	7	8	6	4	3	9	5	2
8	3	2	1	9	6	4	7	5

Rubio visits Missionaries of Charity; Opposition raises FCRA amendment

Triumph of Congress MP calls it 'sheer hypocrisy' for the Centre to showcase the Missionaries of Charity to an international visitor, while proposing a bill barring Christian bodies from receiving foreign aid and enabling seizure of Church assets

John Salva Singh
MUMBAI

U.S. Secretary of State Marco Rubio began his maiden four-day visit to India on Saturday by visiting Mother House, the headquarters of Saint Teresa's Missionaries of Charity, in central Kolkata.

After about an hour at Mother House, where he was welcomed by the sisters of the Missionaries of Charity, Mr. Rubio visited Nirmala Sahu Bhawan, an orphanage run by the same group.

The visit assumes significance particularly in the wake of concerns that a proposed bill to amend the Foreign Contribution (Regulation) Act (FCRA) would restrict the ability of Christian organisations in India, including the Missionaries of Charity, to receive foreign funds and would make them vulnerable to the seizure of their assets.

Days before the visit, U.S. Congressman Clark Heath had urged the secretary of state to push the Indian government to withdraw such amendments, referring to the temporary suspension of the Missionaries of Charity's FCRA licence in 2022 as an illustration of the risk.

Under these amendments, referring to the temporary suspension of the Missionaries of Charity's FCRA licence in 2022 as an illustration of the risk. Under these amendments, all of the order's assets could have been seized outright and permanently lost, though the licence was eventually restored," Mr. Heath wrote in an Op-Ed in the Washington Examiner.



Visitors in Mother's U.S. Secretary of State Marco Rubio and his wife, Stephanie D. Rubio, pay homage to Mother Teresa at Missionaries of Charity in Kolkata on Saturday. U.S. envoy Sergio Gora is seen. (AP)

He said, "The U.S. Secretary of State was not at least Prime Minister Narendra Modi in Delhi. Mr. Rubio's visit triggered a war of words between the BJP and the Trinamool Congress over the FCRA status of the Missionaries of Charity and the impact of the proposed Bill.

"Sheer hypocrisy!" Triumph of Congress MP Anurag Choudhary said at the Mother House was a salute to the Catholic group's "unwavering commitment to humanitarian service", even as she criticised the "sheer hypocrisy" of the Narendra Modi government at the Centre.

"An anti-Christian government which through its proposed FCRA Bill had barred Missionaries of Charity from receiving foreign aid and in enabling seizure of Church assets, then destroying the ability of Christian institutions to do the humanitarian, massive educational and healthcare providing services they are known for, yet now showcasing our revered Mother Teresa's organisation for the international visitor?" she said in a post on X.

BJP leader Anil Malviya dismissed Mr. Choudhary's claims about the group's FCRA status as "blatant falsehood", though he did not respond to her allegations about the proposed FCRA amendments and their impact.

"Distortion of facts" "This is a deliberate and malicious attempt to spread disinformation, malign the Government of India, and mislead people through a complete distortion of facts," Mr. Malviya said.

He insisted that the Missionaries of Charity is registered under the Act and continues to hold an active FCRA registration.

"The validity of the FCRA registration is till 31-12-2026. No application concerning its FCRA status is pending as on date," he said.

"He (Secretary Rubio) wanted to witness at the Mother's Tomb. So, we prayed together and that's about it, nothing else happened. It was just a family get-together, a representative of Missionaries of Charity told presspersons.

Historic visit The last time the city hosted a U.S. Secretary of State was in May 2012 when Hillary Clinton had visited Kolkata and met the then Chief Minister, Mamata Banerjee.

Mr. Rubio visited Victoria Memorial in Kolkata, with security stepped up at both locations for the high-profile visit.

Assam CM backs Muslim plea to avoid cow sacrifice

The Hindu Bureau
GUWAHATI

Assam Chief Minister Himanta Biswa Sarma on Saturday welcomed the statement issued by various Bangladeshi and grassroots organisations in the State, urging Muslims not to sacrifice cows during Bakrid, as Id-ul-Adha.

Over the past few days, Bangladeshi representatives in at least four districts — Bongaigaon, Cachar, Dibrugarh and Jajigaon — have appealed to community members to respect the religious sentiments of non-Muslims by refraining from slaughtering cows during Bakrid.

The festival of sacrifice is on May 27.

The Bangladeshi representatives urged Muslims to consider sacrificing animals other than cows to preserve social harmony. They noted that cows hold deep cultural and religious significance in some societies and stressed the importance of maintaining communal goodwill.

"I welcome the initiatives of the Bangladeshi Community in Dibrugarh, Bongaigaon, Udharband (Techar district), and other places. They have respected the sentiments of the majority community. Their voluntary actions will go a long way in strengthening communal harmony in Assam. I hope other Bangladeshi communities will also issue similar appeals," Mr. Sarma wrote on social media platform X.

Major Abhilasha Barak to receive UN's military gender advocate award

Prava Tripathi
UNITED NATIONS

An Indian peacekeeper serving with the United Nations (UN) mission in Lebanon, Major Abhilasha Barak, has been named the recipient of a prestigious military gender advocate award by the world body.

Ms. Barak has been honoured with the 2023 UN Women Military Gender Advocate of the Year award for her outreach of work with women and girls during her deployment in the West Bank region of the United Nations.

"Proud to announce that Major Abhilasha Barak has been awarded the 2023 UN Military Gender Advocate of the Year Award as the Commander of the Female Engagement Team (FET) in UN Truce Force in Lebanon (UNTF)."

Ms. Barak is serving with the Indian Battalion as the Commander of the Female Engagement Team (FET) in UN Truce Force in Lebanon (UNTF).

Agri-tech has improved productivity, post-harvest management, say experts

The Hindu Bureau
CHENNAI

Advances in agriculture technology have made tremendous leaps into the agricultural sector, enhancing production, yield and creating innovative solutions to modern farming challenges, experts at a webinar have said.

They were speaking on the topic "Agriculture technology revolution: Jointly organised by the SRM Institute of Science and Technology (SRMIST) and The Hindu as part of their Future of India series.

Devinder Thingra, Principal Scientist Process Engineering, Agricultural Engineering and Agronomy of the Council for Agricultural Research, said that 47% of farm work was now mechanised, and the introduction of scientific methods has led to surplus production, which has resulted in agricultural produce being exported to other countries.

While mechanisation of harvesting horticulture crops continued to pose a challenge, harvest of field crops has been largely met by using precision equipment for the same.

"Tractors are being actively used for crop maintenance and application of pesticides," Dr. Thingra said, adding that crop storage mechanisms have undergone tremendous changes as well.

Pooja Prabhakar, CEO, Samanvay Foundation, said the sector had been bolstered by multiple decentralised energy systems and various agri-tech innovations. "We have highly customised solutions available for climate and geographical conditions now. Remote sensing technologies are also available in the market created by startups or professionals with less than two years of experience," she noted.

Another with years of experience in the field of agri-tech, said that the sector had been largely met by using precision equipment for the same.

"Tractors are being actively used for crop maintenance and application of pesticides," Dr. Thingra said, adding that crop storage mechanisms have undergone tremendous changes as well.

SRM FUTURE CAREER CONVERSATIONS

THE HINDU

Agri-tech has improved productivity, post-harvest management, say experts

WHA marks stroke as public health priority for the first time

Ranaya Kannan

The World Health Assembly (WHA) passed the first-ever resolution on strokes on Friday, urging member states to recognise the medical condition as a public health priority and to strengthen national policies across the full care pathway. This involves prevention and risk-factor control, with acute treatment, expanded rehabilitation and long-term support.

The WHO definition of stroke is a medical emergency that occurs when blood flow to the brain is interrupted, either due to a blockage or bleeding. This lack of blood flow can lead to brain cell death and serious complications. Strokes can be fatal and need immediate treatment. It is estimated that strokes affect 12 million people every year, killing one or half of them, and leaving two out of three survivors with a lasting disability.

The resolution calls for stronger national and global actions to reduce the burden of strokes, through prevention, acute care, rehabilitation, and improved health system readiness. It also recognises the pressing accountability of governments and WHO's medical officer for cardiovascular diseases and strokes, called the resolution "historic", saying it created a political mandate. Called Abdul Ghafar, Kyrgyz Minister of Health, and Population, who submitted the resolution to the Assembly, said the resolution gives every country a framework to close the gaps in stroke care.

Dr. Kanungo said that the resolution means focus on stroke care. It is a landmark event as it is the first time that the WHO has taken such a strong stance on stroke care. He said that the resolution is a landmark event as it is the first time that the WHO has taken such a strong stance on stroke care.

new strokes annually or even the one-month case fatality rate (including that of the caretakers), says K. Kanungo, senior neurologist and past president of the Neurological Society of India.

"Wake-up call" "There is enough data now to show that strokes occur much earlier in India than in other countries. While specific genes have been identified, it is their interaction with a modifiable environment that actually increases the risk of stroke in the young," he says. The good news is that risk factors such as hypertension, diabetes, tobacco use, physical inactivity, unhealthy diet, air pollution, and alcohol misuse are all reversible.

12 per 1,00,000 people per year, with a one-month case fatality rate (including that of the caretakers), says K. Kanungo, senior neurologist and past president of the Neurological Society of India.

"Wake-up call" "There is enough data now to show that strokes occur much earlier in India than in other countries. While specific genes have been identified, it is their interaction with a modifiable environment that actually increases the risk of stroke in the young," he says. The good news is that risk factors such as hypertension, diabetes, tobacco use, physical inactivity, unhealthy diet, air pollution, and alcohol misuse are all reversible.

He adds: "This resolution should be a wake-up call for India. With the current state of digital literacy, an excellent telecom network, India can share the rest of the world that stroke prevention is eminently doable."

E.S. Krishnamoorthy, a neurophysiologist and founder of the Rudhali Clinic, says, "WHO's first dedicated stroke resolution is a landmark moment as it recognises stroke not just as an acute medical emergency, but as a lifelong neuro-logical and rehabilitation challenge. For countries like India, where stroke-related disability is rising rapidly, the emphasis on prevention, rehabilitation, and sustainable neuro-rehabilitation is especially important."

Major Abhilasha Barak to receive UN's military gender advocate award

Press Trust of India

UNITED NATIONS

An Indian peacekeeper serving with the United Nations (UN) mission in Lebanon, Major Abhilasha Barak, has been named the recipient of a prestigious military gender advocate award by the world body.

Ms. Barak has been honoured with the '2025 United Nations Military Gender Advocate of the Year' award for her outreach efforts with women and girls during her deployment in the West Asian nation.

"Proud to announce that Major Abhilasha Barak has been awarded the 2025 UN Military Gender Advocate of the Year Award. She is being recognised for her outreach and community engagement activities for



Major Abhilasha Barak

women and adolescent girls and gender sensitisation training for peacekeepers," the Permanent Mission of India to the United Nations said in a post on X Friday.

Ms. Barak is serving with the Indian Battalion as the Commander of the Female Engagement Team (FET) in UN Interim Force in Lebanon (UNIFIL).

- Major Abhilasha Barak, an Indian Army officer, received the **2025 UN Military Gender Advocate of the Year Award**
 - मेजर अभिलाषा बराक, एक भारतीय सेना अधिकारी, को **2025 यूएन मिलिट्री जेंडर एडवोकेट ऑफ द ईयर पुरस्कार** मिला
 - She is deployed as Commander of the **Female Engagement Team (FET)** in the Indian Battalion under **UNIFIL** in Lebanon
 - वह लेबनान में **UNIFIL** के अंतर्गत भारतीय बटालियन में **महिला संलग्नता दल (FET)** की कमांडर के रूप में तैनात हैं
 - Award recognizes her outreach with women, girls, and gender sensitisation for peacekeepers
 - पुरस्कार महिलाओं, लड़कियों के साथ आउटरीच और शांतिरक्षकों के लिए लिंग संवेदीकरण कार्य हेतु दिया गया
 - Announced by the **Permanent Mission of India to the United Nations** via X (formerly Twitter)
 - **संयुक्त राष्ट्र में भारत के स्थायी मिशन** द्वारा X (पूर्व में Twitter) पर घोषित किया गया
 - Reflects India's growing role in **UN peacekeeping** and women's empowerment in defence
 - भारत की **यूएन शांतिरक्षा** और रक्षा में महिला सशक्तिकरण में बढ़ती भूमिका को दर्शाता है
-

- Major Abhilasha Barak has been awarded the "**2025 United Nations Military Gender Advocate of the Year**" award
- मेजर अभिलाषा बराक को "**2025 यूएन मिलिट्री जेंडर एडवोकेट ऑफ द ईयर**" पुरस्कार दिया गया है
- She is serving in the **Indian Battalion** at UNIFIL, Lebanon as Commander of the Female Engagement Team (FET)
- वह UNIFIL, लेबनान में **भारतीय बटालियन** में महिला संलग्नता दल (FET) की कमांडर के रूप में सेवारत हैं
- Awarded for community outreach, engagement with women and adolescent girls, and gender sensitisation training
- सामुदायिक आउटरीच, महिलाओं-किशोरी लड़कियों से जुड़ाव, और लिंग संवेदीकरण प्रशिक्षण के लिए पुरस्कृत

D2. Key Players / मुख्य पक्ष

- **Major Abhilasha Barak** — Indian Army officer, awardee
- **मेजर अभिलाषा बराक** — भारतीय सेना अधिकारी, पुरस्कृत
- **United Nations (UN)** — Award-giving body
- **संयुक्त राष्ट्र (यूएन)** — पुरस्कार देने वाली संस्था
- **UNIFIL (UN Interim Force in Lebanon)** — Mission where she is deployed
- **UNIFIL (लेबनान में यूएन अंतरिम बल)** — मिशन जहाँ वह तैनात हैं
- **Permanent Mission of India to the UN** — Made the announcement
- **संयुक्त राष्ट्र में भारत का स्थायी मिशन** — घोषणा की
- **Female Engagement Team (FET)** — Her specific command unit
- **महिला संलग्नता दल (FET)** — उनकी विशिष्ट कमान इकाई

History / इतिहास

- India's first UN peacekeeping participation: **1950 Korean War** (non-combat medical unit)
- भारत की पहली यूएन शांतिरक्षा भागीदारी: **1950 कोरियाई युद्ध** (गैर-युद्धक चिकित्सा इकाई)
- **Operation Poomalai (1987)**: India's air-dropping of food to LTTE-besieged Jaffna — early humanitarian airborne operation
- **ऑपरेशन पूमलाई (1987)**: भारत द्वारा LTTE-घिरे जाफना में खाना गिराना
- Lebanon conflict roots: **1975 Civil War**, PLO operations, Israeli invasions of 1978 and 1982
- लेबनान संघर्ष की जड़ें: **1975 गृहयुद्ध**, PLO अभियान, 1978 और 1982 में इजरायली आक्रमण

Geography / भूगोल

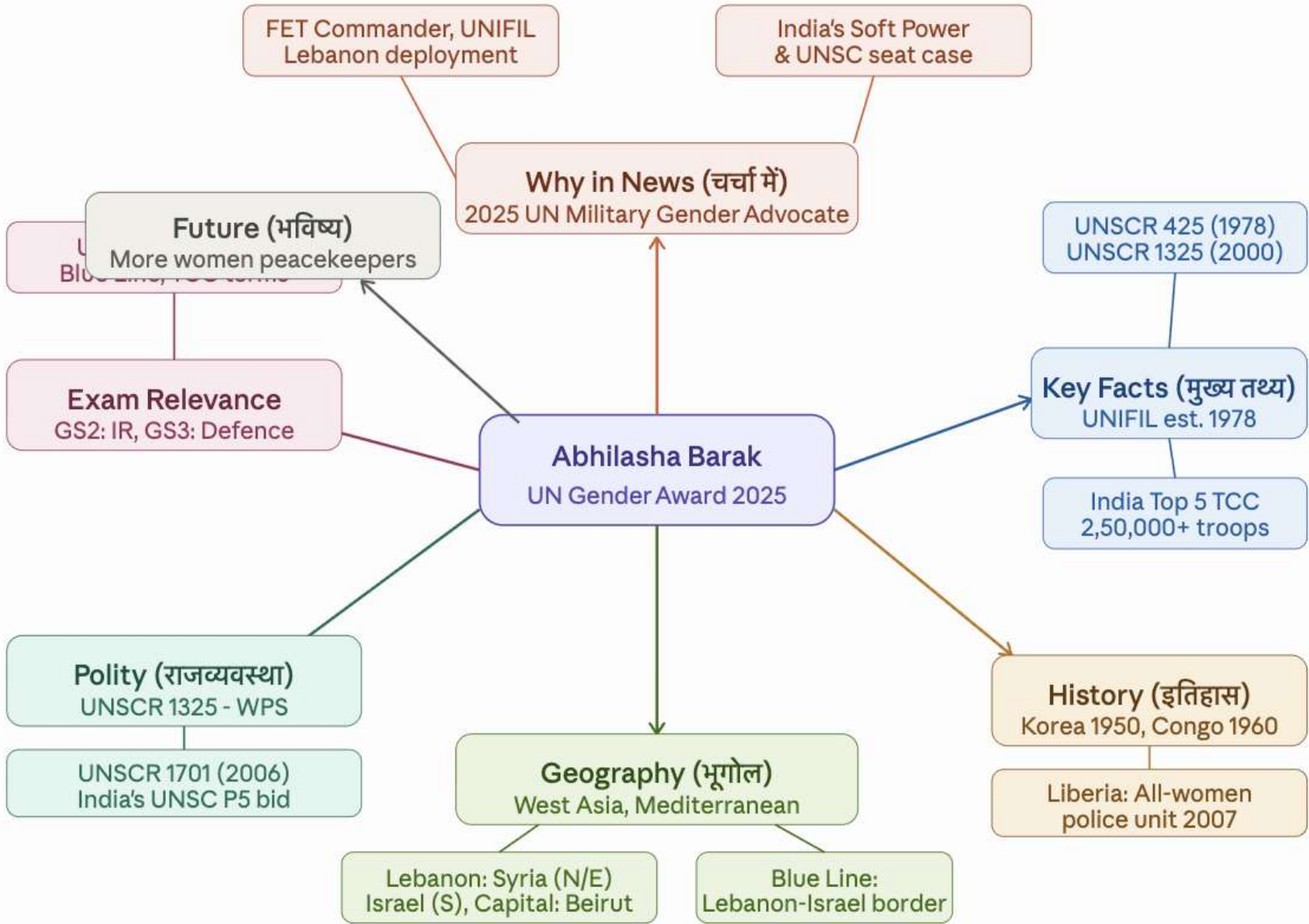
- **Lebanon**: Located in **West Asia**; bordered by Syria (north/east), Israel (south); Mediterranean coast (west)
- **लेबनान**: पश्चिम एशिया में स्थित; उत्तर/पूर्व में सीरिया, दक्षिण में इजरायल; पश्चिम में भूमध्य सागर
- **Capital of Lebanon**: Beirut | **लेबनान की राजधानी**: बेरूत
- South Lebanon — UNIFIL's area of operations, along the **Blue Line** (demarcation between Lebanon and Israel)
- दक्षिण लेबनान — UNIFIL का कार्य क्षेत्र, **ब्लू लाइन** (लेबनान-इजरायल सीमांकन) के साथ

Polity / राजव्यवस्था

- **UN Security Council Resolution 1701 (2006):** Created current UNIFIL mandate after Israel-Hezbollah war
- **यूएन सुरक्षा परिषद प्रस्ताव 1701 (2006):** इजरायल-हिज्बुल्ला युद्ध के बाद वर्तमान UNIFIL जनादेश बनाया
- **UNSCR 1325 (2000):** First resolution on Women, Peace and Security — landmark for women in conflict
- **UNSCR 1325 (2000):** महिला, शांति और सुरक्षा पर पहला प्रस्ताव
- Article 51 of UN Charter: Right to self-defence; Chapter VII: Use of force authorisation
- यूएन चार्टर का अनुच्छेद 51: आत्मरक्षा का अधिकार; अध्याय VII: बल प्रयोग प्राधिकरण

Economy / अर्थव्यवस्था

- UN pays troop-contributing countries — **\$1,428 per soldier per month** (standard reimbursement rate as of recent years)
- यूएन सैन्य-योगदान देशों को भुगतान करता है — हाल के वर्षों में प्रति माह **\$1,428 प्रति सैनिक**
- Peacekeeping brings **foreign exchange earnings** for India
- शांतिरक्षा भारत के लिए **विदेशी मुद्रा आय** लाती है
- Lebanon economy collapsed since 2019; one of worst financial crises — context of peacekeeping challenges
- लेबनान की अर्थव्यवस्था 2019 से ध्वस्त; सबसे खराब वित्तीय संकटों में से एक



Consider the following statements about UNIFIL and India's peacekeeping role:

1. UNIFIL was established in 1978 following the Israeli invasion of Lebanon.
2. India is currently the single largest troop contributor to UN peacekeeping missions.
3. UN Security Council Resolution 1325 (2000) was the first resolution on Women, Peace and Security.
4. The Female Engagement Team (FET) is used to engage with local women in conflict zones.

IN BRIEF



Centre asks Delhi Gymkhana Club to vacate by June 5

The Delhi Gymkhana Club has been asked by the Union Urban Affairs Ministry to hand over its premises by June 5 as the 27-acre plot is required for "strengthening and securing defence infrastructure". The club stands adjacent to the Prime Minister's residence on the Lok Kalyan Marg in the national capital. The premises, located in a highly sensitive and strategic area of Delhi, is critically required for the strengthening and securing of defence infrastructure and other vital public security purposes. An order issued by the Land & Development Office (LDO) under the Union Housing and Urban Affairs Ministry said.

Seven arrested as UP STF busts SSC exam-rigging racket

The Uttar Pradesh Special Task Force has busted an alleged racket involved in rigging State Selection Commission (SSC) online recruitment exams using proxy servers and dummy candidates, creating seven people from Greater Noida, officials said on Saturday. The accused were manipulating RRC examinations for recruitment of constables in the Central Armed Police Forces and Secretariat Security Force, and officers in the Assam Rifles, at an online exam centre operating under the name "Bakal Digital Zone" in the Knowledge Park area. The racket was busted on Friday. The STF seized 650 kg in cash, five laptops, and other items from them.

Nagaland steps up ASF curbs; pork sale banned in districts

The government has intensified surveillance and containment measures following the outbreak of African swine fever (ASF) in various parts of Nagaland, while several districts imposed bans on the import, transport, and sale of pig and pork products. The Directorate of Animal Husbandry and Veterinary Services has been closely monitoring the situation through district veterinary officers, and field staffs who are actively engaged in surveillance, containment, awareness campaigns, sample collection and implementation of bio-security measures to prevent further spread of ASF, an official statement said in Kohima.

NCW takes up UP teen's suspected honour killing

The National Commission for Women (NCW) on Saturday took cognizance of a complaint related to the fatal murder of a teenager from Kishanganj in Uttar Pradesh whose mutilated and decapitated body was found in a train coach at a station in Lucknow. In a statement, the NCW said reports had been received of a possible "honour killing" or "hate crime" behind the murder. A man, with the help of his sister and mother in law, allegedly killed his 17-year-old daughter over an interfaith relationship. According to the police, the man first assaulted his daughter. After she allegedly attempted suicide, he conspired with his relatives to kill her.

SUDOKU

	7		19					
			45					
9	39	2					1	8
8	6		9				7	2
7						6	3	
2						1		7
			48					
			53			1		

DIFFICULTY RATING: ★★★★★

SOLUTION TO yesterday's Sudoku

7	3	1	2	4	6	1	5	8	9
9	3	9	2	4	5	6	7	8	1
8	6	7	3	8	9	2	1	5	4
4	8	1	7	2	5	6	9	3	1
7	9	8	4	9	8	7	3	6	5
2	5	6	4	9	8	7	3	1	5
1	8	5	2	4	9	8	7	3	6
6	5	3	2	1	9	8	4	7	1

Rubio visits Missionaries of Charity; Opposition raises FCRA amendment

Trinamool Congress MP calls it 'sheer hypocrisy' for the Centre to showcase the Missionaries of Charity to an international visitor, while proposing a Bill barring Christian bodies from receiving foreign aid and enabling seizure of Church assets

Rohit Bahuguna
KOLKATA



Tributes to Mother's U.S. Secretary of State Marco Rubio and his wife, Jennifer G. Rubio, pay homage to Mother Teresa at Missionaries of Charity in Kolkata on Saturday. U.S. envoy Sergio Gue is seen. (AI)

U.S. Secretary of State Marco Rubio began his maiden four-day visit to India on Saturday by visiting Mother House, the headquarters of Saint Teresa's Missionaries of Charity, in central Kolkata. After about an hour at Mother House, where he was welcomed by the abbot of the Missionaries of Charity, Mr. Rubio visited Nirmala Saha Bhawan, an orphanage run by the same group. He visit assumes significance particularly in the wake of concerns that a proposed Bill to amend the Foreign Contribution (Regulation) Act (FCRA) would restrict the ability of Christian organisations in India, including the Missionaries of Charity, to receive foreign funds and would make them vulnerable to the seizure of their assets. Days before the visit, U.S. Ambassador Sergio Gue at the airport had urged the Secretary of State to push the Indian government to withdraw these amendments, referring to the temporary suspension of the Missionaries of Charity's FCRA licence in 2022 as an illustration of the risk. "Under these amendments, all of the order's assets could have been seized overnight and potentially lost, though the licence was eventually restored," Mr. Gue wrote in an Op-Ed in the Washington Examiner.

'Distortion of facts'
"This is a deliberate and malicious attempt to spread disinformation, malign the Government of India, and mislead people through a complete distortion of facts," Mr. Malviya said. He insisted that the Missionaries of Charity is registered under the Act and continue to hold an active FCRA registration. "The validity of the FCRA registration is till 31-12-2026. No application concerning its FCRA status is pending as on date," he said. "The Secretary (Social Welfare) of the Mother's Tomb, So, we are aware of the situation about it, nothing else happened. It was just a family dispute over the management of the Missionaries of Charity did preparations.

Mr. Rubio's visit triggered a war of words between the BJP and the Trinamool Congress over the FCRA status of the Missionaries of Charity and the impact of the proposed Bill. "An anti-Christian government which through new proposed FCRA Bill had barred the Missionaries of Charity from receiving foreign aid and is enabling seizure of Church assets, thus destroying the ability of Christian institutions to do the humanitarian, mass-education, health-care, and welfare services they are known for, yet now showcasing our revered Mother Teresa's organisation for the internationalisation of the group's FCRA status as 'blatant falsehood', though he did not respond to her allegations about the proposed FCRA amendment and their impact.

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Major Abhilasha Barak to receive UN's military gender advocate award

Prava Triast of India
UNITED NATIONS



Major Abhilasha Barak

An Indian peacekeeper serving with the United Nations (UN) mission in Lebanon, Major Abhilasha Barak has been named the recipient of a prestigious military gender advocate award by the world body. Ms. Barak has been honoured with the 2022 United Nations Military Gender Advocate of the Year award for her outreach efforts with women and girls during her deployment in the West Asian nation. "Proud to announce that Major Abhilasha Barak has been awarded the 2022 UN Military Gender Advocate of the Year award. She is being recognised for her outreach and community engagement activities for women and adolescent girls and gender sensitisation training for peacekeepers," the Permanent Representative of India to the United Nations said in a post on X. Ms. Barak is serving with the Indian Battalion as the Commanding Officer of the Female Engagement Team (FET) in UN Interim Force in Lebanon (UNIFIL).

Agri-tech has improved productivity, post-harvest management, say experts

The Hindu Bureau
CHENNAI



Advances in agriculture technology have made tremendous inroads into the agricultural sector, enhancing production manifold and creating innovative solutions to modern farming challenges, experts at a webinar have said. They were speaking on the topic "Agriculture technology revolution," jointly organised by the SRM Institute of Science and Technology (SRMIST) and The Hindu as part of their Future Career Conversations series. Devidhar Dhaniga, Principal Scientist (Process Engineering), Agricultural Engineering Division, Indian Council for Agricultural Research, said that 47% of farm work was now mechanised, and the introduction of scientific methods has led to surplus production, which has resulted in agricultural produce being exported. While mechanisation of harvesting, horticulture crops continued to pose a challenge, harvest of field crops has been largely mechanised. "The use of precision agriculture, which has been using position equipment, which has resulted in the same. "Tractors are being actively used for crop management and application of pesticides," Dr. Dhaniga said, adding that crop storage mechanisms have undergone tremendous changes as well. Poonam Panchkala, CEO, Sarumam Foundation, said the sector had been bolstered by multiple decentralised energy systems, various ad-tech innovations. "We have highly skilled human resources available for climate and geographical conditions necessary for the same. Technologies are also available in the market created by experts or professionals with less than five years of experience," she noted. "Anybody with a passion to solve problems innovatively in low volume if technology was linked to farming, he added. A.M. Rajendran, Senior Deputy Editor, The Hindu, moderated the webinar, which can be accessed at <https://newswithlive/FUTURECAREERCONVERSATIONS>.

Assam CM backs Muslim plea to avoid cow sacrifice

The Hindu Bureau
GUWAHATI

Assam Chief Minister Himanta Biswa Sarma on Saturday welcomed the statements issued by various Eidgah and graveyard committees in the State, urging Muslims not to sacrifice cows during Eidgah, or Idgahs. Over the past few days, Eidgah committees in at least four districts — Bongaigaon, Cachar, Dhubri, and Haila — have approached community members to respect the religious sentiments of non-Muslims by refraining from slaughtering cows during Eidgah. The festival of sacrifice is on May 27. The Eidgah representatives urged Muslims to consider sacrificing animals other than cows to preserve social harmony. They noted that cows hold deep cultural and religious significance in some societies and stressed the importance of maintaining communal goodwill. "I welcome the initiative of the Eidgah Committees in Haila, Dhubri, Bongaigaon, Ulhabor and Cachar districts, and other places. They have respected the sentiments of the majority community. Such voluntary actions will go a long way in strengthening communal harmony in Assam. I hope other Eidgah committees will also issue similar appeals," Mr. Sarma wrote in an social media post on X.

WHA marks stroke as public health priority for the first time

Ramya Kannan

The World Health Assembly (WHA) passed the first-ever resolution on stroke on Friday, urging member states to recognise the medical condition as a public health priority and to strengthen national policies across the full care pathway. This involves prevention and risk-factor control, timely acute treatment, expanded rehabilitation and long-term support. The WHO definition of stroke is a medical emergency that occurs when blood flow to the brain is interrupted, due to a blockage or bleeding. This lack of blood flow can lead to brain cell death and serious complications. Stroke can be fatal and need immediate treatment. It is estimated that stroke affects 12 million people every year, killing one or half of them, and leaving two-out of three survivors with a lasting disability. The resolution calls for member states to take global action to reduce the burden of stroke, through prevention, care, rehabilitation, and improved health systems. It also reinforces reporting accountability. Koushik Agasthyar, WHO's medical officer for cardiovascular diseases and stroke, called the resolution "historic," saying it treated a public health crisis as a global health emergency. Khabab Abdul Ghaffar, Khyber's Minister of Health and Population, who submitted the resolution to the Assembly, said: "The resolution gives every country a framework to close the gaps in stroke prevention, care, rehabilitation and support that means fewer deaths and disabilities tomorrow." As per estimates published in a recent peer-reviewed International Journal of Stroke, the annual burden of stroke in India ranges from 106 to 172 per 1,00,000 people and the corresponding case fatality rate between 10% to 15%. The global burden of 8,000-odd neurologists and neurosurgeons for India's entire population, and this compounds concerns about the inadequacy of care. "One detail that is more important than

new strokes annually or even the one-month case fatality as the millions of man hours lost (including that of the caretakers)," says K. Gopavathy, senior neurologist and past president of the neurological Society of India. R.K. Krishnamoorthy, a neurophysiologist and founder of the Buddhi Clinic, says, "WHO's first dedicated stroke resolution is a landmark moment as it recognises stroke not just an acute medical emergency, but as a lifelong neurological condition that increases the risk of stroke in the young," he says. "The good news is that risk factors such as hypertension, diabetes, tobacco use, obesity, physical inactivity, unhealthy diet, air pollution, and alcohol intake are all reversible." He adds: "This resolution should be a wake-up call for India. With the current state of digital literacy an excellent telehealth network, India can show the rest of the world stroke prevention is eminently doable."

WHA marks stroke as public health priority for the first time

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ment. It is estimated that strokes affect 12 million people every year, killing over half of them, and leaving two out of three survivors with a lasting disability.

The resolution calls for stronger national and global action to reduce the burden of strokes, through prevention, acute care, rehabilitation, and improved health system readiness. It also reinforces reporting accountability.

Kouamivi Agboyibor, WHO's medical officer for cardiovascular diseases and strokes, called the resolution "historic", saying it created a political mandate. Khaled Abdel Ghafar, Egypt's Minister of Health and Population, who submitted the resolution to the Assembly, said: "The resolution gives every country a framework



Stroke is a medical emergency that occurs when blood flow to the brain is interrupted, due to a blockage or bleeding. GETTY IMAGES

to close the gaps in stroke care systematically... Commitment today means fewer deaths and fewer disabled citizens tomorrow."

As per estimates published in an article in the peer-reviewed *International Journal of Stroke*, the crude incidence of stroke in India ranges from 108 to

172 per 1,00,000 people per year, with a one-month case fatality rate between 18% and 42%. There are only 8,000-odd neurologists and neurosurgeons for India's entire population, and this compounds concerns about the inadequacy of care. "One detail that is more important than

new strokes annually or even the one-month case fatality is the millions of man hours lost (including that of the caretakers)," says K. Ganapathy, senior neurologist and past president of the Neurological Society of India.

'Wake-up call'

"There is enough data now to show that strokes occur much earlier in India than in other countries. While specific genes have been identified, it is their interaction with a modifiable environment that actually increases the risk of stroke in the young," he says. The good news is that risk factors such as hypertension, diabetes, tobacco use, obesity, physical inactivity, unhealthy diet, air pollution, and alcohol misuse are all reversible.

He adds: "This resolution should be a wake-up call for India. With the current state of digital literacy and an excellent telecom network, India can show the rest of the world that stroke prevention is eminently doable."

E.S. Krishnamoorthy, a neuropsychiatrist and founder of the Buddhi Clinic, says, "WHO's first dedicated stroke resolution is a landmark moment as it recognises stroke not just as an acute medical emergency, but as a lifelong neurological and rehabilitation challenge. For countries like India, where stroke-related disability is rising rapidly, the emphasis on prevention, rehabilitation, health-system readiness and scalable neurorehabilitation models is especially important."

- **WHA (World Health Assembly)** passed its first-ever resolution on strokes — urging member states to recognise it as a public health priority
- **WHA (विश्व स्वास्थ्य सभा)** ने स्ट्रोक पर अपना पहला प्रस्ताव पारित किया — सदस्य देशों से इसे सार्वजनिक स्वास्थ्य प्राथमिकता मानने का आग्रह
- Strokes affect **12 million people per year**, kill over half, and leave 2 in 3 survivors with lasting disability
- स्ट्रोक प्रति वर्ष **1.2 करोड़ लोगों** को प्रभावित करता है, आधे से अधिक की मृत्यु, 3 में से 2 बचे लोग दीर्घकालिक विकलांगता से ग्रस्त
- Resolution calls for **stronger national and global action** on prevention, acute care, rehabilitation
- प्रस्ताव **मजबूत राष्ट्रीय और वैश्विक कार्रवाई** — रोकथाम, तीव्र देखभाल, पुनर्वास पर
- WHO's **Kouamivi Agboyibor** called it "historic" — creating a political mandate
- WHO के **कौआमिवी अग्बोयिबोर** ने इसे "ऐतिहासिक" कहा — एक राजनीतिक जनादेश निर्माण
- India-specific concern: only **8,000 neurologists/neurosurgeons** for entire population; stroke occurs **earlier** in Indians
- भारत-विशेष चिंता: पूरी जनसंख्या के लिए केवल **8,000 न्यूरोलॉजिस्ट/न्यूरोसर्जन**; भारतीयों में स्ट्रोक **पहले** होता है

- A **stroke** is a medical emergency that happens when blood flow to the brain suddenly stops — either because a blood vessel gets blocked (ischemic stroke) or bursts (hemorrhagic stroke)
- **स्ट्रोक** एक चिकित्सीय आपातस्थिति है जब मस्तिष्क में रक्त प्रवाह अचानक रुक जाता है — रक्त वाहिका अवरुद्ध (इस्केमिक स्ट्रोक) या फट (हेमोरेजिक स्ट्रोक) जाने से
- Without blood, brain cells die within minutes — causing paralysis, speech loss, or death
- रक्त के बिना, मस्तिष्क कोशिकाएं मिनटों में मर जाती हैं — पक्षाघात, वाकशक्ति हानि या मृत्यु
- The **World Health Assembly (WHA)** is the decision-making body of the **World Health Organization (WHO)** — all 194 member countries are represented
- **विश्व स्वास्थ्य सभा (WHA)** विश्व स्वास्थ्य संगठन (WHO) का निर्णय-निर्माण निकाय है — 194 सदस्य देश
- For the **first time ever**, WHA officially recognised stroke not just as an emergency but as a **lifelong neurological and rehabilitation challenge**
- पहली बार, WHA ने स्ट्रोक को केवल आपातस्थिति नहीं, बल्कि **आजीवन न्यूरोलॉजिकल और पुनर्वास चुनौती** माना
- India is particularly at risk because strokes happen **10-15 years earlier** here than in western countries — possibly due to genetic factors, hypertension, diabetes
- भारत विशेष रूप से जोखिम में है क्योंकि यहाँ स्ट्रोक पश्चिमी देशों की तुलना में **10-15 साल पहले** होता है

D1. What Happened? / क्या हुआ?

- WHA passed the **first-ever resolution on strokes** on Friday
- WHA ने शुक्रवार को स्ट्रोक पर पहला प्रस्ताव पारित किया
- Recognises stroke as a **public health priority** requiring full care pathway approach
- स्ट्रोक को सार्वजनिक स्वास्थ्य प्राथमिकता के रूप में मान्यता — पूर्ण देखभाल मार्ग दृष्टिकोण
- Resolution covers: **prevention, risk-factor control, timely acute treatment, expanded rehabilitation, long-term support**
- प्रस्ताव कवर करता है: रोकथाम, जोखिम कारक नियंत्रण, समय पर उपचार, पुनर्वास, दीर्घकालिक सहायता
- Resolution **submitted by Egypt** (Khaled Abdel Ghaffar, Health Minister)
- प्रस्ताव मिस्र द्वारा प्रस्तुत (खालिद अब्देल गफ्फार, स्वास्थ्य मंत्री)

D2. Key Players / मुख्य पक्ष

- **WHO (World Health Organization)** — oversees WHA; HQ Geneva, Switzerland
- **WHO** — WHA की निगरानी; मुख्यालय जिनेवा, स्विट्जरलैंड
- **WHA (World Health Assembly)** — 194 member states; meets annually in Geneva
- **WHA** — 194 सदस्य देश; प्रतिवर्ष जिनेवा में मिलते हैं
- **K. Ganapathy** — Senior neurologist, past president of Neurological Society of India
- **के. गणपति** — वरिष्ठ न्यूरोलॉजिस्ट, भारतीय न्यूरोलॉजी सोसाइटी के पूर्व अध्यक्ष
- **E.S. Krishnamoorthy** — Neuropsychiatrist, founder of Buddhi Clinic
- **ई.एस. कृष्णमूर्ति** — न्यूरोसाइकियाट्रिस्ट, बुद्धि क्लिनिक के संस्थापक
- **International Journal of Stroke** — peer-reviewed journal cited for India incidence data
- **इंटरनेशनल जर्नल ऑफ स्ट्रोक** — भारत डेटा के लिए उद्धृत

- **Global stroke burden:** 12 million cases/year → 6 million deaths → disability in survivors
- **वैश्विक स्ट्रोक बोझ:** 1.2 करोड़ मामले/वर्ष → 60 लाख मौतें → बचे लोगों में विकलांगता
- **India's crisis:**
 - Crude incidence: **108-172 per 1,00,000** people per year
 - **108-172 प्रति 1,00,000** प्रति वर्ष
 - One-month case fatality rate: **18-42%** (very high)
 - एक माह मृत्यु दर: **18-42%** (बहुत अधिक)
 - Only **8,000 neurologists/neurosurgeons** for 1.4 billion people
 - **8,000 न्यूरोलॉजिस्ट/न्यूरोसर्जन** 1.4 अरब लोगों के लिए
 - **Stroke occurs earlier** in India due to gene-environment interaction
 - भारत में स्ट्रोक पहले होता है जीन-पर्यावरण अंतःक्रिया के कारण

D4. Larger Context / व्यापक संदर्भ

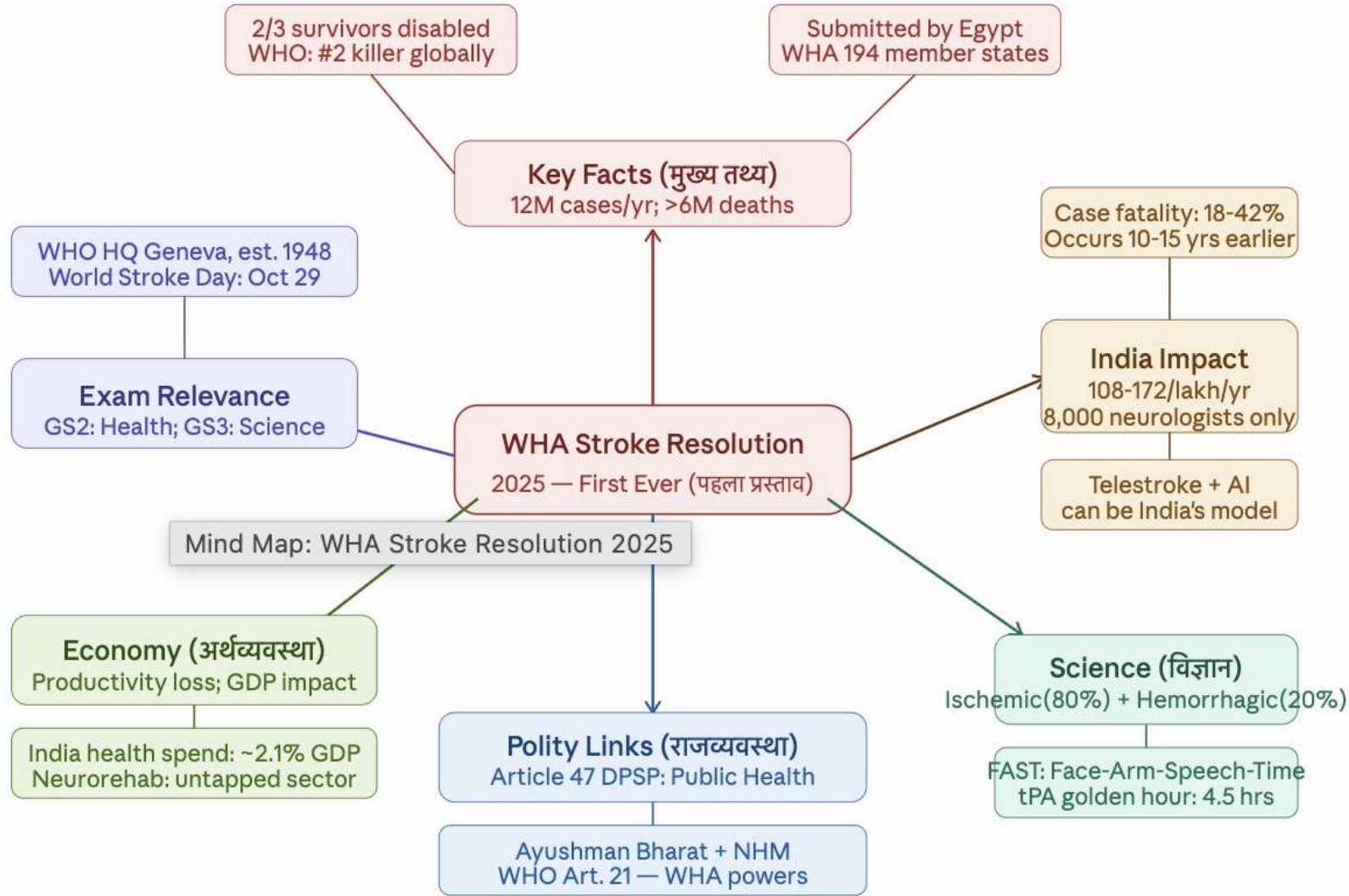
- Stroke is the **second leading cause of death globally** (after heart disease)
- स्ट्रोक वैश्विक स्तर पर मृत्यु का दूसरा प्रमुख कारण (हृदय रोग के बाद)
- Previously treated only as **acute emergency** — WHA now mandates lifelong approach
- पहले केवल तीव्र आपातस्थिति माना — WHA अब आजीवन दृष्टिकोण अनिवार्य करती है
- Resolution reinforces **reporting accountability** and health system readiness
- प्रस्ताव रिपोर्टिंग जवाबदेही और स्वास्थ्य प्रणाली तत्परता को मजबूत करता है
- Key modifiable risk factors: **hypertension, diabetes, tobacco, obesity, physical inactivity, unhealthy diet, air pollution, alcohol**
- प्रमुख परिवर्तनीय जोखिम कारक: **उच्च रक्तचाप, मधुमेह, तंबाकू, मोटापा, शारीरिक निष्क्रियता, अस्वास्थ्यकर आहार, वायु प्रदूषण, शराब**

D5. Why Important for India? / भारत के लिए क्यों महत्वपूर्ण?

- India has one of **highest per capita stroke burdens** in the world
- भारत में दुनिया में प्रति व्यक्ति सबसे अधिक स्ट्रोक बोझ में से एक
- Extreme shortage of neurologists — **1 per 1.75 lakh population** (vs ideal 1 per 10,000)
- न्यूरोलॉजिस्टों की अत्यधिक कमी — प्रति 1.75 लाख जनसंख्या 1 (आदर्श 1:10,000 की तुलना में)
- India's strong **telecom network and digital literacy** can enable **telestroke programs**
- भारत के मजबूत दूरसंचार नेटवर्क और डिजिटल साक्षरता से टेलीस्ट्रोक कार्यक्रम संभव
- Aligned with **Ayushman Bharat and National Health Mission (NHM)** goals
- आयुष्मान भारत और राष्ट्रीय स्वास्थ्य मिशन (NHM) लक्ष्यों के अनुरूप
- India can be a **model** for low-cost neurorehabilitation for developing world
- भारत विकासशील दुनिया के लिए कम लागत न्यूरो-पुनर्वास का **मॉडल** बन सकता है

D6. Why Important for the World? / विश्व के लिए क्यों महत्वपूर्ण?

- First political framework globally for comprehensive stroke management
- व्यापक स्ट्रोक प्रबंधन के लिए पहला वैश्विक राजनीतिक ढांचा
- Countries now accountable with **reporting and accountability mechanisms**
- देश अब रिपोर्टिंग और जवाबदेही तंत्र के साथ जवाबदेह
- Reduces economic burden: lost working hours of patients + caretakers = massive GDP impact
- आर्थिक बोझ कम करेगा: रोगियों + देखभालकर्ताओं के काम के नष्ट घंटे = GDP पर भारी प्रभाव





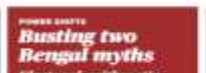
BJP wins Falta seat by more than 1 lakh votes
NEWS PAGE 2



Blockade to remain, won't rush into deal, says Trump
NEWS PAGE 14



10 killed in estuary tragedy in Karnataka
STORIES PAGE 5



Busting two Bengal myths
Electoral arithmetic: How can't explain BJP's rise in the State
STORIES PAGE 5



Resilient Royals storm into the playoffs
SPORTS PAGE 10

INSIDE



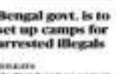
Oreshnik missile used in attack on Kyiv, four killed

BYE Russia launched the Oreshnik missile with a massive warhead that struck four people, who were killed, in an attack on Kyiv, Ukraine, on Sunday, with reports suggesting the missile was used to target a Ukrainian military base.



Twisha's last rites performed after second autopsy

TRAGEDY Twisha's last rites were performed after a second autopsy. The body was found in a canal in Bengaluru, and the police are investigating the case.



Bengal govt. is to set up camps for arrested illegal immigrants

IMMIGRATION The West Bengal government has decided to set up camps for arrested illegal immigrants across the state to set up holding centres for them. The government is also planning to deport them.

U.S. and India call for 'unimpeded' sea trade

'Tactical' ties with other countries not at India's 'expense', U.S. Secretary of State Marco Rubio | **Trump speaks over the telephone at an event, says India can 100% count on the U.S. President** | **In day-long meeting with Jaishankar, the top U.S. diplomat discusses energy, trade, and visa issues**

Kalid Bhattacharya
The United States speaks with many partners at a "tactical" level, but those relationships will not detract the strategic partnership with India, U.S. Secretary of State Marco Rubio said on Sunday.



Marco Rubio, U.S. Secretary of State, and S. Jaishankar, Indian External Affairs Minister, speak at the virtual event in New Delhi after their meeting on Sunday.

Congress targets Modi over Rubio's trade claim

The Hindu Bureau
New Delhi
Targeting Prime Minister Narendra Modi over U.S. Secretary of State Marco Rubio's statement that India has committed to purchasing \$500 billion worth of U.S. goods over five years, the Congress on Sunday alleged the "unimpeded trade" was going the other way.

help, they know where to call," Mr. Trump said. Mr. Rubio's visit to India is the first by a senior official from Washington since the U.S. and Israel launched the war on Iran in February 2018. He stated that the war had not gone as planned and, accordingly, the U.S. campaign had destroyed Iraq's heavy weapons, a diplomatic solution to this crisis, and Mr. Rubio's mission. The visiting itinerary and Mr. Jaishankar's return to the challenges that have been in-

all over the world. So does India. That's what responsible nations do but I don't view our relation with any country in the world as coming at the expense of our strategic alliance with India... Mr. Rubio said. The visit, according to a spokesman for the Ministry of External Affairs, is the first of the president's role that Pakistan has been playing in bringing the conflict in the Gulf to a pause.

to India for a four-day visit on Sunday, held a telephone meeting with Jaishankar and other officials of the Indian side including Foreign Secretary Vikram Sarin, in which energy, bilateral trade, and visa issues for skilled Indian workers were among the issues discussed.



Swimming coach Vikas Aggarwal on a farm in Siba over the floating summer school during the onset of a girl at Rajapattan village in Panchajanya district of Andhra Pradesh on Sunday.

Summer gauntlet
The all-India national children's swimming competition is being held in Siba village in Rajapattan village in Panchajanya district of Andhra Pradesh on Sunday.

Quad grouping remains a 'vital framework', says Japan's Foreign Minister

International Herald
New Delhi
Responding to queries that the Quad has lost its relevance, Japanese Foreign Minister Toshimitsu Motegi said that the four-nation grouping remains a "vital framework".

national values and strategic interests. It has delivered concrete results across a wide range of areas, including maritime security, economic security, and cybersecurity. Mr. Motegi said, but also expressed the hope that the mechanism will continue to evolve and expand its role in the region.

Suicide bombing kills at least 24 in Pak's Baloch

Associated Press
Dera
At least 24 people were killed and nearly 50 others wounded in a suicide bombing in Balochistan province on Sunday when a suicide bomber detonated a truck loaded with explosives in a market in Quetta.

Balochistan provincial government spokesperson
Balochistan provincial government spokesperson said that at least 24 people were killed and nearly 50 others wounded in a suicide bombing in Balochistan province on Sunday when a suicide bomber detonated a truck loaded with explosives in a market in Quetta.

China sends astronaut on year-long space mission as it eyes 2030 moon landing

Reuters

Jiuquan, May 24

CHINA SENT three astronauts to its space station on Sunday, one of whom will stay for a year, a record length for the country, enabling the study of long-duration human physiology in space as Beijing works towards its ambition of a crewed moon landing by 2030.

The Shenzhou-23 vessel launched at 11:08 pm using the Long March-2F Y23 carrier rocket from Jiuquan Satellite Launch Center in northwest China, with three Chinese astronauts on board.

Payload specialist Li Jiaying, a former Hong Kong police inspector, is the first astronaut from the city to take part in a Chinese space mission. The other crew members are commander Zhu Yangzhu and pilot Zhang Yuanzhi, both from the People's Liberation Army's astronaut division.

One of the three is to stay on the Tiangong space station for a year, one of the longest space missions ever but short of the 14-

The Shenzhou-23 vessel launched using the Long March-2F Y23 carrier rocket from Jiuquan Satellite Launch Center in northwest China

1/2-month record set by a Russian cosmonaut in 1995. That astronaut will be decided later, depending on the progress of the mission, the China Manned Space Agency said on Saturday.

China has sent astronauts to its space station almost a dozen times, but this launch comes amid an accelerating race to the moon with the US, which has warned about what it alleges are Beijing's plans to colonise and mine lunar territory and resources. NASA is seeking to achieve a crewed moon landing in 2028, two years ahead of China. The US aims to establish a long-term lunar presence as a stepping stone to eventual human exploration of Mars.

- China launched **Shenzhou-23** spacecraft with **3 astronauts** — one will stay for **1 year**, a record for China
 - चीन ने **3 अंतरिक्षयात्रियों** के साथ **शेनझोउ-23** लॉन्च किया — एक **1 वर्ष** रहेगा, चीन के लिए रिकॉर्ड
 - Mission enables study of **long-duration human physiology** in space — key for moon/Mars missions
 - मिशन अंतरिक्ष में **दीर्घकालिक मानव शरीर क्रिया विज्ञान** के अध्ययन को सक्षम करता है
 - China aims for **crewed moon landing by 2030**; US (NASA) targets **2028 (Artemis program)**
 - चीन का लक्ष्य **2030 तक चंद्रमा पर मानव मिशन**; अमेरिका (NASA) का लक्ष्य **2028 (आर्टेमिस कार्यक्रम)**
 - **Li Jiaying** (former Hong Kong police inspector) is the **first astronaut from Hong Kong** in a Chinese mission
 - **ली जियाइंग** (पूर्व हांगकांग पुलिस निरीक्षक) चीनी मिशन में **हांगकांग से पहली अंतरिक्षयात्री**
 - Launched from **Jiuquan Satellite Launch Center** (northwest China) using **Long March-2F Y23** rocket
 - **जिउकुआन सैटेलाइट लॉन्च सेंटर** (उत्तर-पश्चिम चीन) से **लॉन्ग मार्च-2F Y23** रॉकेट से लॉन्च
-

D3. Immediate Issue / तात्कालिक मुद्दा

- Studying **long-duration spaceflight effects** on human body: bone density loss, muscle atrophy, radiation, vision changes
- मानव शरीर पर **दीर्घकालिक अंतरिक्ष उड़ान प्रभाव**: हड्डी घनत्व हानि, मांसपेशी क्षय, विकिरण, दृष्टि परिवर्तन
- Preparing for **crewed Moon and Mars missions** — needs human adaptation data
- मानव चंद्रमा और मंगल मिशन की तैयारी — मानव अनुकूलन डेटा आवश्यक
- **Geopolitical dimension**: China-US race over lunar territory/resources
- **भू-राजनीतिक आयाम**: चंद्रमा के क्षेत्र/संसाधनों पर चीन-अमेरिका दौड़

D4. Larger Context / व्यापक संदर्भ

- US warns China may "**colonise and mine lunar territory**" — concern about resources and military use
- अमेरिका चेतावनी: चीन "**चंद्र क्षेत्र का उपनिवेशीकरण और खनन**" कर सकता है
- **Artemis Accords** (NASA-led): Framework for peaceful lunar exploration; China not a signatory
- **आर्टेमिस समझौते** (NASA-नेतृत्व): शांतिपूर्ण चंद्र अन्वेषण ढांचा; चीन हस्ताक्षरकर्ता नहीं
- China has sent astronauts to Tiangong **about a dozen times** — rapidly building deep space capabilities
- चीन ने तियांगोंग को **लगभग एक दर्जन बार** अंतरिक्षयात्री भेजे — तेजी से क्षमता निर्माण
- US aims to establish **long-term lunar presence** as stepping stone for Mars
- अमेरिका मंगल के लिए **दीर्घकालिक चंद्र उपस्थिति** स्थापित करना चाहता है

- **First Space Race (1957-1969):** USSR vs USA — Sputnik (1957), Yuri Gagarin (1961), Moon landing/Apollo 11 (1969)
- **पहली अंतरिक्ष दौड़ (1957-1969):** सोवियत संघ बनाम अमेरिका — स्पुतनिक, गागरिन, अपोलो 11
- **Valery Polyakov (1994-95):** Longest single spaceflight — 437 days (14.5 months) on Mir space station
- **वेलेरी पॉलाकोव (1994-95):** सबसे लंबी एकल अंतरिक्ष उड़ान — 437 दिन, मीर स्टेशन पर
- **Rakesh Sharma (1984):** India's first person in space — Soviet Soyuz-T11 mission
- **राकेश शर्मा (1984):** अंतरिक्ष में भारत के पहले व्यक्ति — सोवियत सोयूज-T11 मिशन
- **Hong Kong:** Returned to China from UK in **1997** — Li Jiaying symbolises "One Country, Two Systems"
- **हांगकांग:** 1997 में ब्रिटेन से चीन को वापस — ली जियाइंग "एक देश, दो व्यवस्था" का प्रतीक

Geography / भूगोल

- **Jiuquan:** Located in **Gansu Province**, northwest China — China's oldest and largest space launch center
- **जिउकुआन:** गांसु प्रांत, उत्तर-पश्चिम चीन में — चीन का सबसे पुराना और बड़ा प्रक्षेपण केंद्र
- China's other launch centers: **Wenchang** (Hainan, tropical), **Xichang** (Sichuan), **Taiyuan** (Shanxi)
- चीन के अन्य प्रक्षेपण केंद्र: **वेंचांग** (हैनान), **शीचांग** (सिचुआन), **तायुआन** (शांक्सी)
- **Moon's South Pole:** Area of interest — water ice deposits in permanently shadowed craters
- **चंद्रमा का दक्षिणी ध्रुव:** रुचि का क्षेत्र — स्थायी छाया वाले क्रेटरों में जल बर्फ

Polity / राजव्यवस्था

- **Outer Space Treaty (OST) 1967:** Moon not subject to national claims; peaceful use; no weapons of mass destruction
- **बाहरी अंतरिक्ष संधि (OST) 1967:** चंद्रमा राष्ट्रीय दावों का विषय नहीं; शांतिपूर्ण उपयोग
- **Artemis Accords:** US-led bilateral agreements for lunar exploration norms; 40+ signatories (India signed 2023)
- **आर्टेमिस समझौते:** अमेरिका-नेतृत्व चंद्र अन्वेषण मानदंड; 40+ हस्ताक्षरकर्ता (भारत ने 2023 में हस्ताक्षर किए)
- **Moon Agreement (1979):** Common Heritage of Mankind — NOT ratified by major space powers (US, Russia, China)
- **चंद्रमा समझौता (1979):** मानवजाति की साझा विरासत — प्रमुख अंतरिक्ष शक्तियों ने अनुसमर्थन नहीं किया
- India's space policy: **Space Activities Bill** (pending); **IN-SPACE** for private players; **New Space India Ltd (NSIL)** for commercialisation
- भारत की अंतरिक्ष नीति: **अंतरिक्ष गतिविधियाँ विधेयक; IN-SPACE; NSIL**

Economy / अर्थव्यवस्था

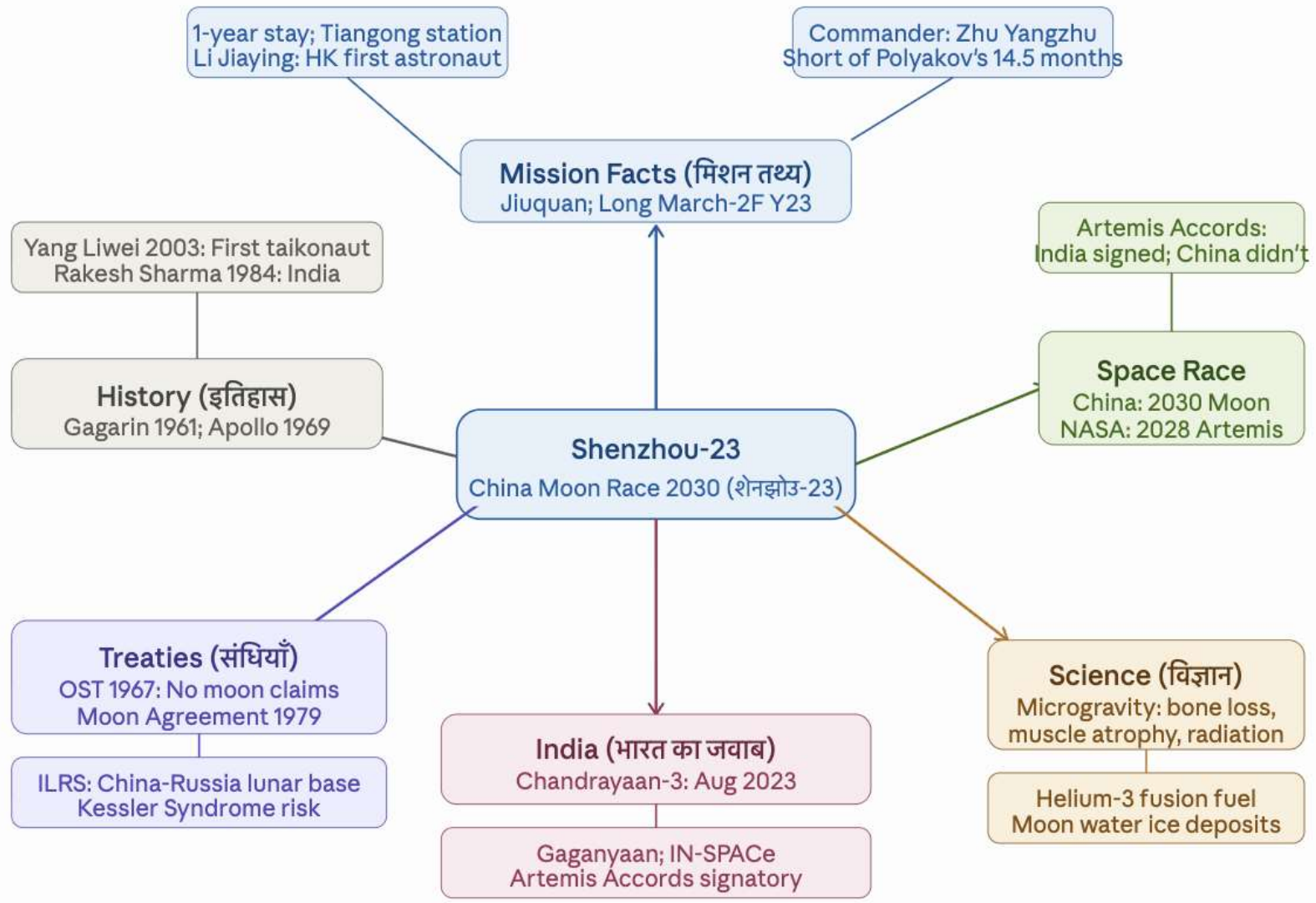
- **Global space economy:** ~\$630 billion (2023); expected \$1.8 trillion by 2035
- **वैश्विक अंतरिक्ष अर्थव्यवस्था:** ~\$630 अरब (2023); 2035 तक \$1.8 ट्रिलियन अपेक्षित
- **Lunar resources:** Water ice (fuel production), Helium-3 (fusion energy), rare earth minerals
- **चंद्र संसाधन:** जल बर्फ (ईंधन उत्पादन), हीलियम-3 (संलयन ऊर्जा), दुर्लभ पृथ्वी खनिज
- India's space sector target: \$44 billion by 2033 (from current ~\$8 billion)
- भारत का अंतरिक्ष क्षेत्र लक्ष्य: 2033 तक \$44 अरब

Environment / पर्यावरण

- Space debris: Over **25,000 trackable objects** in orbit — increasing collision risk
- अंतरिक्ष मलबा: कक्षा में **25,000+** ट्रैक करने योग्य वस्तुएं — टक्कर जोखिम बढ़ रहा है
- **Lunar mining concerns:** Disruption of scientifically valuable lunar environment
- चंद्र खनन चिंताएं: वैज्ञानिक रूप से मूल्यवान चंद्र पर्यावरण का विघटन
- Rocket launches: Carbon emissions debate — SpaceX Falcon 9 vs Long March emissions

Science & Tech / विज्ञान-प्रौद्योगिकी

- **Microgravity effects on human body:**
 - Bone density loss: ~1-2% per month | हड्डी घनत्व हानि: प्रति माह ~1-2%
 - Muscle atrophy | मांसपेशी क्षय
 - Cardiovascular deconditioning | हृदय-संवहनी अनुकूलन हानि
 - Vision impairment (intracranial pressure) | दृष्टि हानि (इंद्राक्रैनियल दबाव)
 - Radiation exposure | विकिरण संपर्क
- **Long March rocket family:** China's primary launch vehicle; versions from LM-1 (1970) to LM-9 (super heavy, in development)
- लॉन्ग मार्च रॉकेट परिवार: चीन का प्राथमिक प्रक्षेपण यान
- **Helium-3:** Rare on Earth, abundant on Moon — potential fuel for nuclear fusion reactors
- हीलियम-3: पृथ्वी पर दुर्लभ, चंद्रमा पर प्रचुर — परमाणु संलयन रिएक्टरों के लिए संभावित ईंधन
- **ISRO's Gaganyaan:** India's crewed mission to LEO — Test Flight Vehicle (TV-D1) completed 2023
- **ISRO का गगनयान:** भारत का मानव मिशन — TV-D1 परीक्षण 2023 में पूरा



Consider the following statements about China's space program:

1. The Tiangong space station was completed in 2022.
2. Li Jiaying was the first woman from Hong Kong to participate in a Chinese space mission.
3. The Shenzhou-23 mission's one-year stay will surpass Valery Polyakov's record of 14.5 months.
4. China is not a signatory to the Artemis Accords.

• DEFENCE

DRDO's new missile offers precision strikes, anti-drone combat

Sushant Kulkarni
Pune, May 24

THE DEFENCE Research and Development Organisation (DRDO) last week carried out final development trials of the UAV-Launched Precision Guided Missile (ULPGM)-V3. This will be followed by user trials by the armed forces.

Significant upgrade

A DRDO scientist said that compared with the V1 and V2 variants, the ULPGM-V3 represents a significant advancement in India's indigenous drone-launched missile capability.

The V1 was a basic free-fall precision missile and the V2 introduced propulsion, longer range, and mid-course target updates. The V3 adds the ability to engage both ground and aerial targets, including drones and helicopters. It also features



Development trials of ULPGM-V3 at DRDO's test range in Kurnool. PIB

more advanced target-seeking systems, improved day-and-night combat capability, and multiple warhead options for different battlefield roles, making it a far more versatile weapon for modern drone warfare.

The ULPGM-V3 is fitted with an ad-

The new battlefield

- Development of drone-launched weapons will be one of the DRDO's focus areas
- Drones are important for both conventional conflicts and asymmetric warfare involving smaller, highly mobile threats

vanced guidance system using multiple sensors to accurately track targets, allowing it to strike a wide range of threats. It can be deployed in both plains and high-altitude regions in the day or night. It is equipped with a two-way data link, enabling operators to change or update the target even after the missile has been launched.

Depending on the mission, the missile can be fitted with three types of warheads. These include an anti-armour warhead designed to destroy heavily protected tanks and armoured vehicles, even those fitted with special layers of protection used in modern battle tanks. It also has a penetration-cum-blast warhead meant to pierce and destroy bunkers and fortified structures, and a pre-fragmentation warhead that disperses high-speed metal fragments over a large area to maximise damage. The missile can engage both stationary and moving targets in all weather conditions.

Network-centric warfare

DRDO has partnered with Bharat Dynamics Limited and Adani Defence Systems and Technologies Limited for development and production. The Ministry of Defence said that the missile has been produced entirely through the Indian defence ecosystem, involving DRDO laboratories and several Indian companies.

Officials said that the ULPGM-V3 has been developed primarily for the Army, with the air-to-ground mode for anti-tank roles and air-to-air modes for drone, helicopters, and other airborne targets.

A senior Army officer said systems like ULPGM-V3 are key, as drones are increasingly becoming central to modern warfare worldwide. It also reflects the growing shift towards network-centric warfare, where drones, sensors, and command systems work together in real time to detect and strike targets with precision.

D2. UPLPGM Version Comparison / सस्करण तुलना

Feature	V1	V2	V3
Type	Free-fall (गुरुत्व बम)	Propelled + range (प्रणोदित)	Full PGM + aerial targets (पूर्ण PGM)
Propulsion	None	Yes (added)	Advanced
Target	Ground only	Ground + mid-course update	Ground + Aerial (drones, helicopters)
Guidance	Basic	Mid-course update	Multi-sensor advanced
Day/Night	Day	Improved	Full day + night
Data Link	No	Limited	Two-way data link

D3. Key Technical Features of V3 / V3 की मुख्य तकनीकी विशेषताएं

- **Advanced guidance system:** Multiple sensors to accurately track targets
- **उन्नत मार्गदर्शन प्रणाली:** लक्ष्य सटीक ट्रैकिंग के लिए कई सेंसर
- **Two-way data link:** Operators can change/update target even after missile launched
- **द्विदिश डेटा लिंक:** मिसाइल लॉन्च के बाद भी ऑपरेटर लक्ष्य बदल सकते हैं
- **Three warhead options:**
 1. **Anti-armour warhead:** Destroys tanks, armoured vehicles (including ERA-protected)
 2. **Penetration-cum-blast warhead:** Pierces bunkers, fortified structures
 3. **Pre-fragmentation warhead:** Disperses high-speed metal fragments over large area



*Astro*dynamics on a new low-fuel
Earth-to-Moon trajectory

RESEARCH TEAM



Researchers from the University of São Paulo (Brazil) and the University of Coimbra (Portugal).



Lead Author:
Allan Kardec de Almeida Júnior



Co-author:
Vitor Martins de Oliveira

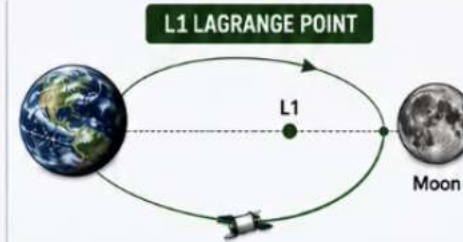
EARTH-MOON TRANSFER TRAJECTORY



Reduces fuel consumption by at least **58.8 m/s** of delta-v compared with previous optimal paths.

HOW THE NEW ROUTE WORKS

- ✓ Uses gravitational effects of Earth and the Moon.
- ✓ Follows pathways linked to the Interplanetary Transportation Network.
- ✓ Approaches the Moon from its far side.
- ✓ Uses routes around the L1 Lagrange point, which lies between Earth and the Moon.



GRAVITY-ASSISTED SPACE NAVIGATION

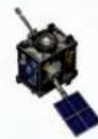


Low-energy transfers like this use gravity assists to save fuel. Such techniques have been used in earlier successful missions.



HITEN PROBE

Japan



Launched in 1990, used low-energy lunar transfer techniques in 1991.



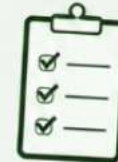
NASA'S GRAIL MISSION

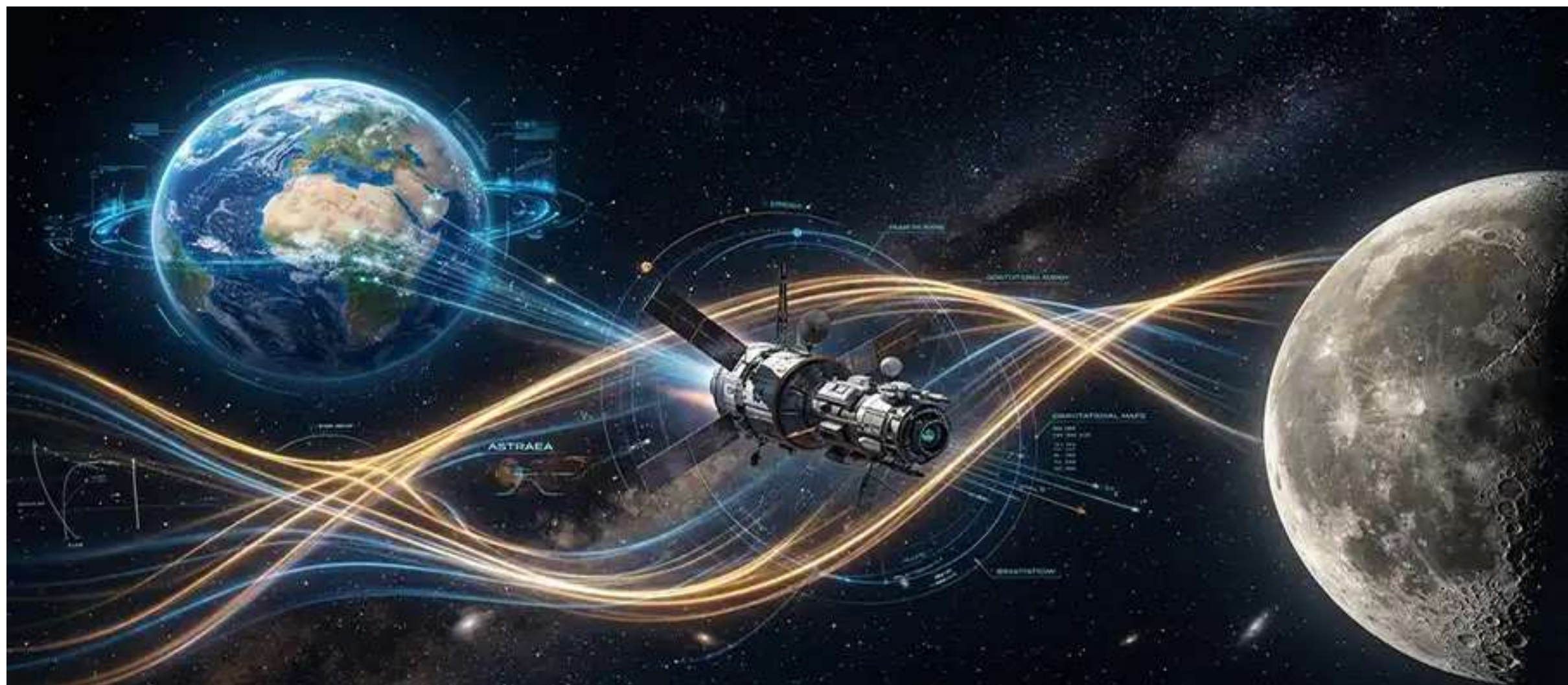
Studied the Moon's gravity field using twin spacecraft.

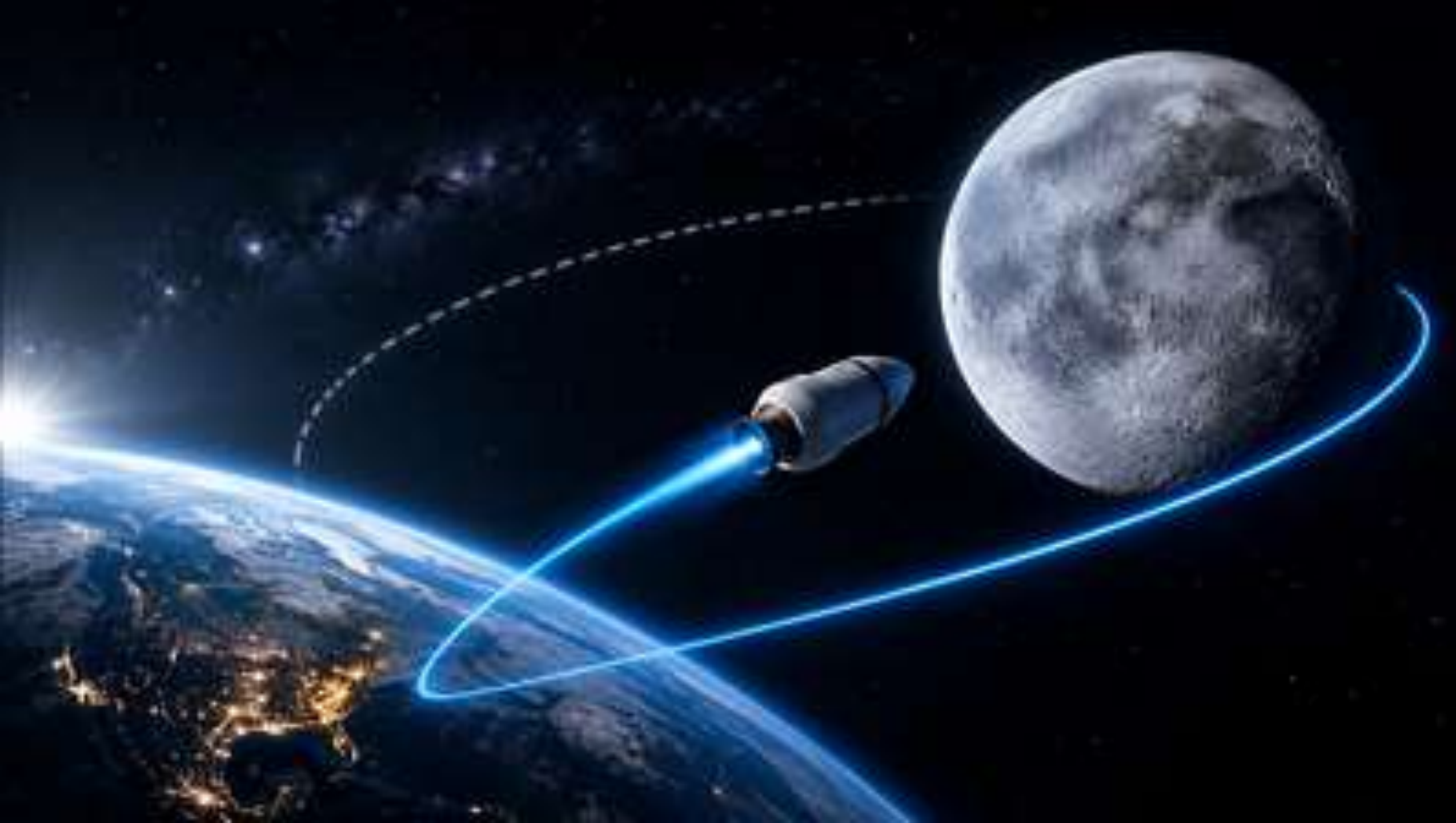


IMPORTANT FACTS FOR EXAMS

- ✓ Delta-v is a measure of the change in velocity needed for a spacecraft manoeuvre.
- ✓ The L1 Lagrange point is one of five equilibrium points in the Earth-Moon system.
- ✓ The Hiten probe was launched by Japan in 1990 and used low-energy lunar transfer techniques in 1991.
- ✓ NASA's GRail mission studied the Moon's gravity field using twin spacecraft.







Topic	Fuel-Saving Earth-to-Moon Route
विषय	ईंधन बचाने वाला पृथ्वी-से-चंद्रमा मार्ग
Published Research	An international team published research in April 2026 in the journal <i>Astrodynamics</i> on a new low-fuel Earth-to-Moon trajectory.
प्रकाशित शोध	एक अंतरराष्ट्रीय वैज्ञानिक दल ने अप्रैल 2026 में <i>Astrodynamics</i> जर्नल में पृथ्वी से चंद्रमा तक कम ईंधन वाले नए मार्ग पर शोध प्रकाशित किया।
Institutions Involved	University of São Paulo, Brazil and University of Coimbra, Portugal were involved.
शामिल संस्थान	ब्राजील की University of São Paulo और पुर्तगाल की University of Coimbra इसमें शामिल थीं।
Lead Author	Allan Kardec de Almeida Júnior was the lead author.
मुख्य लेखक	Allan Kardec de Almeida Júnior इस शोध के मुख्य लेखक थे।
Co-author	Vitor Martins de Oliveira was a co-author.
सह-लेखक	Vitor Martins de Oliveira सह-लेखक थे।
Core Idea	The route uses gravitational effects from Earth and Moon to reduce fuel consumption.
मुख्य विचार	यह मार्ग पृथ्वी और चंद्रमा के गुरुत्वीय प्रभावों का उपयोग करके ईंधन की खपत कम करता है।
Fuel Saving	The route reduces fuel requirement by at least 58.8 metres per second of delta-v compared with previous optimal paths.

Meaning of Delta-v	Delta-v means change in velocity needed for a spacecraft manoeuvre.
Delta-v का अर्थ	Delta-v का अर्थ है अंतरिक्ष यान की दिशा या गति बदलने के लिए आवश्यक वेग परिवर्तन।
Method Used	Scientists used advanced computer modelling and functional connection theory.
उपयोग की गई विधि	वैज्ञानिकों ने advanced computer modelling और functional connection theory का उपयोग किया।
Number of Routes Simulated	About 30 million routes were simulated.
सिमुलेट किए गए मार्ग	लगभग 30 मिलियन मार्गों का सिमुलेशन किया गया।
Reference Cases	The study referred to around 280,000 cases.
संदर्भ मामले	अध्ययन में लगभग 2,80,000 मामलों को संदर्भ के रूप में लिया गया।
Route Feature	The spacecraft approaches the Moon from its far side.
मार्ग की विशेषता	अंतरिक्ष यान चंद्रमा के far side यानी दूरस्थ भाग की ओर से पहुंचता है।
Lagrange Point Used	The route uses paths around the L1 Lagrange point between Earth and Moon.
प्रयुक्त Lagrange Point	यह मार्ग पृथ्वी और चंद्रमा के बीच स्थित L1 Lagrange point के आसपास के रास्तों का उपयोग करता है।
L1 Lagrange Point	L1 is one of five equilibrium points in the Earth-Moon system.
L1 Lagrange Point	L1 पृथ्वी-चंद्रमा प्रणाली के पांच equilibrium points में से एक है।
Communication Advantage	The route maintains continuous communication with Earth.

Signal Blackout Avoidance	It avoids signal blackouts that happen when a spacecraft passes behind the Moon.
Signal Blackout से बचाव	यह चंद्रमा के पीछे जाने पर होने वाले signal blackout से बचाता है।
Mission Duration	The route takes almost 32 days to complete.
मिशन अवधि	इस मार्ग से यात्रा पूरी होने में लगभग 32 दिन लगते हैं।
Best Use	It is suitable for non-urgent cargo missions rather than fast crewed missions.
सबसे उपयुक्त उपयोग	यह तेज मानव मिशन की बजाय गैर-आपातकालीन cargo missions के लिए अधिक उपयुक्त है।
Future Study	Future models may include the Sun's gravity to find more efficient routes for specific launch dates.
भविष्य का अध्ययन	भविष्य के मॉडल विशिष्ट launch dates के लिए और कुशल मार्ग खोजने हेतु सूर्य के गुरुत्व को भी शामिल कर सकते हैं।

China's Chang'e-7 Lunar Mission for South Pole Research



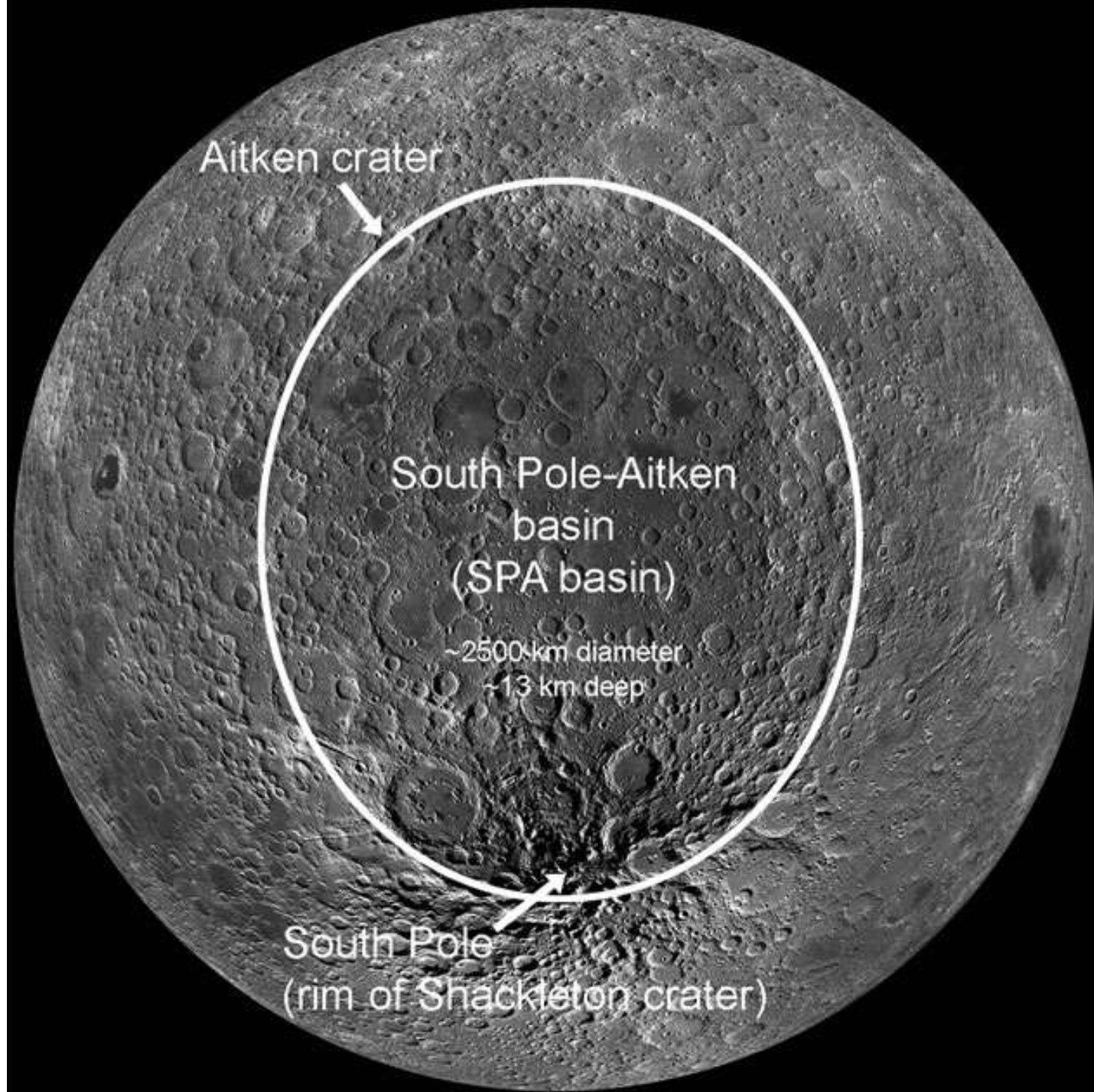
Mission Name	Chang'e-7 lunar mission
मिशन का नाम	Chang'e-7 चंद्र मिशन
Country	China
देश	चीन
Space Agency	China National Space Administration, CNSA
अंतरिक्ष एजेंसी	China National Space Administration, CNSA
Expected Launch	Second half of 2026 / late 2026
संभावित प्रक्षेपण	2026 की दूसरी छमाही / 2026 के अंत में
Target Region	Moon's south pole
लक्ष्य क्षेत्र	चंद्रमा का दक्षिणी ध्रुव
Main Objective	Study permanently shadowed regions and search for possible water ice deposits.
मुख्य उद्देश्य	स्थायी छाया वाले क्षेत्रों का अध्ययन करना और संभावित जल-बर्फ भंडार की खोज करना।
Mission Type	Robotic lunar exploration mission
मिशन का प्रकार	रोबोटिक चंद्र अन्वेषण मिशन

Mission Components	Orbiter, lander, rover, and small hopping spacecraft
मिशन के घटक	Orbiter, lander, rover और छोटा hopping spacecraft
Preferred Landing Site	Rim of Shackleton crater near the lunar south pole
संभावित लैंडिंग स्थल	चंद्र दक्षिणी ध्रुव के पास Shackleton crater का rim
Landing Accuracy	Designed for high-precision landing with accuracy better than 100 metres.
लैंडिंग सटीकता	100 मीटर से बेहतर सटीकता के साथ high-precision landing के लिए डिजाइन किया गया है।
Number of Payloads	Article mentions 18 scientific payloads with international participation.
Payloads की संख्या	लेख के अनुसार इसमें 18 scientific payloads होंगे, जिनमें अंतरराष्ट्रीय भागीदारी भी शामिल है।
International Partners	Payloads include instruments from countries/agencies such as Egypt and Bahrain; other reports mention more international payload participation.
अंतरराष्ट्रीय भागीदारी	इसमें Egypt और Bahrain जैसी एजेंसियों के payloads शामिल हैं; अन्य रिपोर्टों में और भी अंतरराष्ट्रीय payloads का उल्लेख है।
Strategic Importance	It supports China's plan for long-term lunar south pole exploration and future lunar base development.
रणनीतिक महत्व	यह चीन की दीर्घकालीन lunar south pole exploration और भविष्य के lunar base development की योजना को समर्थन देता है।

Why Lunar South Pole Matters for Exams

परीक्षा के लिए चंद्र दक्षिणी ध्रुव क्यों महत्वपूर्ण है

Dimension	Exam Relevance
Science & Technology	It involves water ice detection, robotic exploration, remote sensing, and space resource mapping.
विज्ञान एवं प्रौद्योगिकी	इसमें जल-बर्फ खोज, robotic exploration, remote sensing और space resource mapping शामिल हैं।
Geography	The Moon's polar regions have permanently shadowed craters because of low solar angle.
भूगोल	कम solar angle के कारण चंद्रमा के ध्रुवीय क्षेत्रों में permanently shadowed craters पाए जाते हैं।
Economy	Lunar water can reduce future mission costs by supporting fuel and oxygen production.
अर्थव्यवस्था	Lunar water भविष्य के missions की लागत कम कर सकता है क्योंकि इससे fuel और oxygen production संभव है।
International Relations	China's lunar programme increases space competition and international cooperation.
अंतरराष्ट्रीय संबंध	चीन का lunar programme space competition और international cooperation दोनों को बढ़ाता है।
Strategic Affairs	Lunar south pole is becoming a strategic zone due to possible resources and future bases.





Word of the day

Risible:

arousing or provoking laughter

Synonyms: funny, humorous, ridiculous

Usage: *His excuse for being late was completely risible.*

Pronunciation: newsth.live/risible

International Phonetic Alphabet: /rɪzɪbəl/

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