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HISTORY
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Q.1) Evaluate the socio-economic impact of the PM Mudra Yojana after a decade. Discuss its key successes and limitations in fostering micro-enterprises and inclusive growth.

The **Pradhan Mantri Mudra Yojana (PMMY)**, launched in 2015, has emerged as a transformative initiative aimed at “Funding the Unfunded”, facilitating access to collateral-free institutional credit for micro and small enterprises. Over a decade, PMMY has disbursed over ₹32.61 lakh crore to more than **52 crore beneficiaries**, significantly influencing India’s socio-economic landscape.

Key Successes:

1. Entrepreneurial and Employment Shift: PMMY catalyzed a shift from job-seeking to job-creating mindsets, especially in Tier-2, Tier-3 cities and rural India. A CMIE study (2019) noted **1.12 crore net jobs** were created between 2015 and 2018 due to Mudra loans.

2. Women Empowerment: Women account for **68% of beneficiaries**, with rising average disbursement and deposits indicating improved financial inclusion and participation. PMMY contributed to the rise in **female labor force participation** (from 23% in 2017–18 to 41.7% in 2023–24, PLFS).

3. Inclusion of Marginalized Groups: Nearly **50% of loans** have gone to SC/ST/OBCs, and **11% to minorities**, bridging social inequities and integrating underserved communities into the formal economy.

4. Formalization of Informal Sector: A 2022 SIDBI report noted that **30% of Mudra borrowers transitioned** to formal credit lines, aiding the formalization of India's vast informal micro-enterprise sector.

5. State-level Impact: States like Tamil Nadu, Uttar Pradesh, and Karnataka have seen the highest disbursements, supporting localized economic growth. J&K led among UTs with ₹45,816 crore disbursed.

Limitations:

1. Subsistence over Scale: Around **88% of loans are in the Shishu category** (below ₹50,000), indicating support for survival-level businesses with limited scope for scaling or innovation.

2. Skill and Knowledge Gaps: According to NSDC (2024), only **25% of beneficiaries received formal training**, while SEBI (2023) noted **60% lacked clarity** on repayment terms, limiting effective enterprise growth.

3. Infrastructure & Market Constraints: Poor digital connectivity and lack of market linkages hinder business expansion. Only **15% of Mudra-made products** reach organized markets (NITI Aayog, 2023).

4. Data and Credit Risk Challenges: Information asymmetry and lack of credit history continue to cause **loan rejections (~30%)**, as per RBI and CIBIL reports.

Conclusion:

PMMY has significantly advanced **financial inclusion, women empowerment, and grassroots entrepreneurship**. However, to ensure quality outcomes, the scheme must now evolve into a “**Credit-Plus**” **model** integrating skill development, mentorship, and market access. Strengthening institutional support will be key to making PMMY the cornerstone of India’s inclusive and self-reliant economy by 2047.

Q.2) Assess the importance of incentivizing medical data digitization for AI-driven healthcare innovation in India. Discuss key benefits and associated ethical challenges. (400 words)

Introduction

India, with its vast population and growing disease burden, stands at the cusp of a healthcare revolution. However, most medical records remain undigitized, especially in Tier-2 and Tier-3 cities dominated by small clinics and individual practitioners. Incentivizing **medical data digitization** is crucial for enabling **AI-driven healthcare innovations**, which can improve outcomes, access, and affordability.

Importance of Incentivizing Digitization

- 1. Foundation for AI-based Innovation:** AI systems require large-scale, structured datasets. Without digitization, the creation of Indian-specific AI tools remains constrained. Example: The Centre for Health Intelligence (CHINTA) in Telangana uses digitized public health records for predictive analytics.
- 2. Boost to National Digital Health Mission (NDHM):** Digitization supports **ABDM's goal** of creating longitudinal health records linked to citizens via the Ayushman Bharat Health Account (ABHA). Example: Over 45 crore ABHA IDs created, but only 7 crore linked to actual health records (as of 2023).
- 3. Economic Potential:** NITI Aayog estimates AI in healthcare can contribute **\$25 billion to GDP by 2035**, provided datasets are digitized and made interoperable.
- 4. Empowering Citizens:** Incentives for data sharing can empower patients. Example: Estonia's health system pays citizens when they choose to share anonymized health data with pharma companies.

Key Benefits of AI-Driven Healthcare via Digitization

- 1. Faster & Accurate Diagnosis:** India's AI model for TB detection on chest X-rays (Nikshay platform) outperformed foreign AI tools due to local data training.
- 2. Customized Treatment Protocols:** Tata Memorial Centre uses AI on digitized cancer patient data to personalize chemotherapy plans.
- 3. Disease Surveillance & Policy:** Real-time data can aid in epidemic management. During COVID-19, Aarogya Setu and CoWIN leveraged digitized data for contact tracing and vaccination.

Ethical Challenges

- 1. Data Privacy & Consent:** Concerns around CoWIN's data leaks highlighted the importance of robust digital safeguards.
- 2. Ownership & Monetization:** Without legal clarity, hospitals or aggregators may exploit data. Health data sold by third parties without patient consent in global data breaches.
- 3. Bias & Inequity in AI:** Skewed data can harm underrepresented communities. AI tools trained on urban data may misdiagnose tribal or rural populations.

Conclusion

Medical data digitization, if ethically incentivized, can unlock India's potential as a global AI-healthcare hub. However, this must be coupled with robust data protection laws, citizen consent frameworks, and inclusive datasets to ensure that **healthcare innovation is not just smart, but also just**.

Q.3) Critically examine if the Protection of Interests in Aircraft Objects Bill, 2025, effectively streamlines the repossession of aircraft by lessors in India, considering the Bill's key provisions and the inherent challenges within the Indian aviation ecosystem. (400 words)

Introduction

The **Protection of Interests in Aircraft Objects Bill, 2025** seeks to operationalize India's obligations under the **Cape Town Convention (CTC)** and its **Aircraft Protocol**, with the aim of **enhancing investor confidence and reducing leasing costs** in the aviation sector. It proposes a framework to **simplify aircraft repossession** by lessors in events of **airline default or insolvency**. However, its effectiveness must be evaluated against existing institutional and legal constraints.

Key Provisions of the Bill

1. **Direct enforceability of CTC rights** such as repossession, deregistration, and export of aircraft objects without court intervention.
2. **Override clause** providing primacy over conflicting national laws (except IBC, which is not explicitly excluded).
3. Establishment of a **Designated Authority** to process deregistration requests within prescribed timelines.
4. Facilitation of **electronic international registry access** in line with CTC norms.
5. Penal provisions for **non-compliance by airline operators**.

Positive Implications

1. **Reduces leasing costs:** Alignment with CTC obligations improves India's standing on the **AWG Compliance Index**, lowering risk premiums.
2. **Investor confidence:** Provides certainty to foreign lessors post Jet Airways and Go First controversies, where repossession was stalled due to IBC proceedings.
3. **Faster deregistration:** Reduces bureaucratic hurdles via a single-window deregistration mechanism through DGCA.

Inherent Challenges

1. **IBC Override Missing:** The Bill does not explicitly override the **Insolvency and Bankruptcy Code**, which has previously blocked lessor claims (e.g., Go First case).
2. **Judicial delays:** Enforcement still dependent on Indian courts for final repossession in disputed cases.
3. **Taxation & SPV Ambiguities:** India lacks clarity on **Special Purpose Vehicles (SPVs)** and **permanent establishment (PE)** status, deterring lessor investment.
4. **Regulatory overlap:** Lack of synergy between **DGCA, RBI, CBDT, and Ministry of Civil Aviation** affects seamless implementation.
5. **Domestic leasing bottlenecks:** GIFT City's leasing ecosystem remains underutilized due to unclear incentives and compliance burdens.

Way Forward

1. Introduce a **non-obstante clause** overriding the IBC in aircraft repossession cases.
2. Create a **sectoral arbitration mechanism** under DGCA to handle aviation-specific disputes.
3. Simplify taxation norms and issue CBDT circulars aligning with global leasing practices.
4. Institutionalize **Cape Town Compliance Cell** for regular monitoring and AWG index improvement.

Conclusion

While the **Protection of Interests in Aircraft Objects Bill, 2025** marks a critical step towards modernizing India's aviation finance ecosystem, its potential is **constrained by gaps in legislative harmonization, regulatory fragmentation, and implementation inertia**. A holistic, cross-sectoral approach is essential for India to emerge as a global hub for aircraft **leasing and financing by 2047**.

Q.4) Critically examine the Supreme Court's emphasis on 'constitutional politics' over 'party politics' for constitutional position holders, and its implications for federalism and the rule of law in India.

Introduction

In a landmark verdict delivered on April 8, 2024, in the **Tamil Nadu Governor's case**, the Supreme Court underscored the constitutional mandate that governors and other constitutional authorities must follow **"constitutional politics", not "party politics"**. This ruling emerges amid growing tensions in Centre-State relations, especially where political parties differ, and redefines the **contours of cooperative federalism**.

Constitutional Framework and the Case

The judgment interprets **"Article 200" (Governor's assent to Bills)** and **"Article 163" (aid and advice of the Council of Ministers)** to introduce **reasonable time limits—three months to act on a Bill, and one month if the legislature re-passes a withheld Bill**. Though **Article 200 prescribes no timeline**, the Court invoked a **"purposive interpretation"** to introduce the concept of **"right to time"**, stating that **"functionaries are bound by reasonable deadlines"**.

Implications for Federalism and Rule of Law

1. **Curtailing Arbitrary Discretion:** The ruling addresses the misuse of the "pocket veto", where governors indefinitely delay assent, subverting elected legislatures. It reinforces the **"S.R. Bommai vs Union of India (1994)" principle that constitutional offices cannot be used for partisan purposes**.
2. **Restoring Constitutional Morality:** The Court warned that governors must not serve the **"party that appointed them"**, but act as **"bridges, not bottlenecks"** in Centre-State relations.
3. **Prioritizing Due Process Over Analysis:** Citing the work of Dan Lovullo and Olivier Sibony, the Court emphasized that **"process matters more than analysis"**, reaffirming the essence of the **"rule of law"**.

Challenges Persist

1. Political appointments to Raj Bhavans compromise neutrality.
2. The absence of constitutional penalties for delay weakens enforceability.

3. According to **PRS Legislative Research (2023)**, over 20 State Bills were pending with governors for over six months.

Way Forward

1. Implement **Punchhi Commission (2010)** recommendations for fixed timeframes for **gubernatorial assent**.
2. Codify norms on governor conduct to prevent misuse of **Article 163**.
3. Ensure judicial review for unreasonable delays and **promote Parliamentary oversight**.

Conclusion

The judgment lays a historic foundation for “**reclaiming constitutional spaces from political encroachment**”. For **India@2047**, it is **imperative** that constitutional authorities uphold “**constitutional morality**”, **reinforce federal balance**, and operate within **time-bound democratic accountability**. Only then can the promise of the Constitution be meaningfully realized.

Q.5) Critically evaluate the potential of de-extinction technologies for ecological restoration versus the ecological risks of 'engineering the future' of biodiversity.

Introduction

De-extinction refers to the process of reviving extinct species through advanced genetic technologies like **cloning**, **CRISPR gene editing**, and **synthetic biology**. While it holds promise for ecological restoration, the approach also raises serious concerns about ecological disruption and ethical integrity in engineering future biodiversity.

Potential for Ecological Restoration

1. **Restoring Lost Ecosystem Functions:** De-extinct species can act as keystone species, reviving lost ecological processes. Example: The **Woolly Mammoth Revival Project** aims to convert Arctic tundra back into productive grassland, mitigating permafrost melt and climate change.
2. **Technological Spillovers for Conservation:** Techniques developed for de-extinction benefit critically endangered species. Example: Cloning methods from de-extinction are now applied to **Northern White Rhino** conservation.
3. **Moral Responsibility:** Humanity-driven extinctions (e.g., the **Passenger Pigeon**, **Tasmanian Tiger**) justify revival efforts under the principle of restorative justice.
4. **Scientific Advancement:** Promotes research in **genetics, ecology, and conservation biology**.

Ecological and Ethical Risks

1. **Ecosystem Imbalance:** Reintroduced species may become **invasive**, harming modern ecosystems with changed climates, species compositions, and food webs. Example: Reintroducing large herbivores like mammoths may harm existing Arctic fauna and flora.
2. **Lack of Natural Habitat:** De-extinct species may find no suitable or safe environment to thrive in today's fragmented ecosystems.

3. Animal Welfare Concerns: Surrogate mothers and cloned offspring face **high mortality and health issues**. Case Study: The **Pyrenean Ibex**, revived in 2003, died minutes after birth.

4. Resource Diversion: Risk of shifting funding from endangered species protection to de-extinction. **OECD (2021): Less than 15% of conservation funds go to species recovery** — further fragmentation could be detrimental.

5. Bioethics and Governance Gaps: No global legal framework regulates the release, ownership, or accountability related to synthetic species.

Conclusion

While de-extinction presents a **fascinating frontier for ecological restoration**, its success depends on rigorous **ethical, ecological, and legal safeguards**. In the Anthropocene, engineering biodiversity must be rooted in **precaution, conservation priorities**, and a clear understanding of long-term ecosystem dynamics. De-extinction should complement—not replace—efforts to protect what still exists.

Q.6) Assess the potential of the Genome India Project to transform healthcare and foster indigenous biotechnology innovation. Briefly discuss two key challenges in its implementation.

The **Genome India Project (GIP)**, launched in 2020 and led by the Indian Institute of Science (IISc), aims to **sequence the genomes of 10,000+ Indian individuals** across diverse ethnic and linguistic groups. This project marks a watershed moment in India's pursuit of **precision medicine, population-specific health interventions, and indigenous biotech innovation**.

Transformative Potential in Healthcare

1. Personalized Medicine and Targeted Therapy: The GIP enables **precision medicine** by identifying individual genetic variations. This helps customize drug dosages and treatments, especially for diseases like cancer, cardiovascular disorders, and epilepsy, enhancing **treatment efficacy and minimizing side effects**.

2. Early Diagnosis and Prediction of Genetic Disorders: By mapping predispositions to hereditary conditions such as **Thalassemia, BRCA-related breast cancer, and Huntington's disease**, the project facilitates **early diagnosis**, family screening, and **preventive care**, improving patient outcomes.

3. Improved Understanding of Population-specific Diseases: Certain diseases are more prevalent in specific Indian sub-populations (e.g., **diabetes in South Asians**). GIP helps identify the **genetic basis of such conditions**, enabling **targeted public health interventions** and culturally relevant health strategies.

4. Enhanced Management of Rare Diseases: GIP can identify rare mutations responsible for **rare genetic disorders**, aiding in diagnosis, research, and support under schemes like the **National Policy for Rare Diseases (2021)** and **Ayushman Bharat**.

5. Development of Indigenous Diagnostic Tools: With access to a large genetic database, Indian biotech firms and research institutions can develop **cost-effective, homegrown diagnostic kits** tailored to local populations, reducing dependency on foreign tech and aligning with **Atmanirbhar Bharat**.

Fostering Indigenous Biotechnology Innovation

1. Boost to Indian Pharma and Biotech Startups: GIP data can be leveraged to **develop indigenous diagnostic kits, therapeutics, and vaccines**, reducing dependency on imported technologies.

2. Complementing National Missions: It aligns with **Make in India** and **Atmanirbhar Bharat** by creating a **bio-data bank** crucial for innovations in genomics, biotech startups, and **AI-driven healthcare solutions** under **Digital India** and **Ayushman Bharat Digital Mission**.

Key Challenges

1. Data Privacy and Ethical Concerns: The absence of a comprehensive **genomic data protection law** risks misuse of sensitive information. Issues of **consent**, **anonymity**, and **discrimination based on genetic traits** must be addressed through regulatory frameworks.

2. Inclusive Representation and Awareness: Collecting genetic data from **tribal, remote, and marginalized groups** poses logistical and social challenges. Ensuring informed consent and equitable participation is vital to make the database truly representative.

Conclusion

The Genome India Project holds transformative potential to reshape India's healthcare landscape and catalyze indigenous biotechnology. However, its success hinges on robust **ethical safeguards** and **inclusive outreach**, ensuring science advances without compromising social justice and individual rights.

Q.7) The erosion of traditional seed diversity poses a significant threat to India's agricultural sustainability and food security. Critically examine the factors contributing to this erosion and suggest comprehensive strategies for the conservation and promotion of traditional seed varieties, ensuring the livelihoods of smallholder farmers and preserving the nation's agro-biodiversity.

Introduction

India, historically known as the “cradle of agriculture,” has nurtured diverse traditional seed varieties suited to distinct agro-climatic zones. However, the rapid erosion of this diversity now threatens not only **agricultural sustainability** but also **food and nutritional security**, especially for smallholder farmers who constitute 85% of India's farming population.

Factors Contributing to Seed Diversity Erosion

- Green Revolution & HYVs:** The introduction of High-Yielding Varieties (HYVs) during the Green Revolution marginalized indigenous seeds, particularly in rice and wheat belts.
- Corporate Seed Monopoly:** Seed privatization and reliance on **patented hybrids** and GM seeds have displaced farmer-saved and open-pollinated seeds.
- Lack of Institutional Support:** Agricultural research and extension services overwhelmingly promote modern varieties over traditional ones.
- Climate Change:** Erratic weather patterns impact the viability of local seed strains, while adaptation research favors lab-bred resilience over indigenous evolution.
- Loss of Traditional Knowledge:** Decline in community seed-sharing practices and oral transmission of agronomic knowledge.
- Market-driven monoculture:** Commercialization promotes **uniform, marketable crops** over locally adapted, nutritionally diverse traditional varieties.

Implications

- **Agro-biodiversity loss** undermines ecological resilience.
- Increases **input dependency** (chemical fertilizers, water, pesticides).

- Marginalizes small farmers economically and ecologically.
- Threatens **food sovereignty** and local dietary diversity.

Comprehensive Strategies for Conservation and Promotion

1. **Community Seed Banks:** Encourage local seed banks like **Navdanya** to preserve and propagate traditional varieties.
2. **Agro-Ecological Policies:** Promote **Natural Farming, Zero Budget Farming**, and **Millet Missions** as platforms for indigenous seeds.
3. **Incentivize Farmers:** Provide MSP or bonus for traditional crops to make them market-competitive.
4. **Research & Education:** Invest in participatory research and integrate traditional seed knowledge into agricultural curricula.
5. **Legal Protection:** Strengthen **The Protection of Plant Varieties and Farmers' Rights Act (PPVFR Act, 2001)** to recognize and reward traditional seed conservers.
6. **Public Awareness Campaigns:** Celebrate seed diversity through festivals, exhibitions, and Geographical Indications (GI) tags.

Conclusion

Reviving traditional seed diversity is not just about preserving the past but securing the future. A **synergy of policy, community action, and ecological wisdom** is essential to restore India's seed sovereignty, protect rural livelihoods, and ensure resilient food systems for India@2047.

Q.8) The emergence of AI-powered art generators, such as OpenAI's Ghibli-style image creator, raises complex questions regarding copyright law. Critically analyze the key copyright challenges posed by such technologies and discuss the potential implications for artists, intellectual property rights, and the future of creative industries for India.

Introduction

The rise of AI-powered art generators, like OpenAI's **Ghibli-style image creator**, has sparked both fascination and ethical concerns. These tools generate highly stylized images based on iconic animation aesthetics, such as those created by Hayao Miyazaki and Studio Ghibli. While enabling creative expression, they also **challenge copyright norms, artistic integrity**, and the future of human creativity—especially in countries like India with emerging creative economies.

Key Copyright Challenges

1. **Authorship and Ownership Dilemmas:** India's Copyright Act (1957) recognizes **human authorship** only. Since AI-generated images are produced autonomously, ownership becomes legally ambiguous—posing challenges in copyright registration and enforcement.
2. **Lack of Style Protection:** As noted by Geoffrey McGovern of RAND, **artistic styles** (like Ghibli's) are **not copyrightable** under U.S. law and similarly under Indian law. This legal gap allows AI tools to mimic culturally distinct styles without infringement, despite ethical concerns.
3. **Misuse of Moral and Cultural Themes:** Studio Ghibli's anti-war themes have been misappropriated—for instance, the **IDF using Ghibli-style anime for military propaganda**, and Indian users generating images of the **Babri Masjid demolition**. Such distortion disrespects the **moral rights** of creators, which are weakly enforced even in India.
4. **Opaque AI Training Practices:** AI models often train on datasets scraped from the internet without consent. Lack of transparency, as seen with OpenAI, raises issues of **unauthorized use** of copyrighted artworks—an ongoing global legal dilemma (e.g., *Andersen v. Stability AI*).

Implications for India's Creative Sector

- **Threat to Traditional Artists:** Indian illustrators and animators' risk economic displacement as AI-generated art floods the market.
- **Undermining Cultural Expressions:** Indian folk and tribal art forms (e.g., Madhubani) could be replicated and commercialized by AI without attribution or benefit to original communities.
- **Dilution of Ethical Storytelling:** Using pacifist styles for war propaganda or political violence undercuts the **intent of original artists**, eroding public understanding of nuanced themes.

Way Forward

- **Legal Reform:** India must amend IP laws to **recognize AI-human collaboration** and reinforce **moral rights**.
- **Ethical AI Use Guidelines:** Consent-based training, watermarking tools, and ethical filters can curb misuse.
- **Support for Human Artists:** Policies should fund traditional creators, promote AI-literacy, and provide safeguards against displacement.

Conclusion

While AI tools democratize art creation, unchecked use threatens the rights and dignity of artists. India must proactively strike a **balance between innovation and artistic integrity** to protect its cultural and creative industries.

Q.9) Critically examine how the DPDP Act, 2023, affects the functioning of the RTI Act, particularly concerning the disclosure of personal information. Discuss the implications of these changes for transparency, accountability, and the balance between individual privacy and the public's right to information.

Introduction

The **Right to Information (RTI) Act, 2005**, has been a cornerstone of transparency and participatory democracy in India, empowering citizens to hold the government accountable. However, the **Digital Personal Data Protection (DPDP) Act, 2023**, particularly **Section 44(3)**, has amended **Section 8(1)(j) of the RTI Act**, removing the public interest override for disclosing personal information, thereby threatening this hard-won transparency.

Impact of DPDP Act on RTI Functioning

1. **Removal of Public Interest Override:** Earlier, **Section 8(1)(j) of the RTI Act** allowed disclosure of personal information if it served a larger public interest. The DPDP amendment removes this clause, enforcing a blanket restriction on disclosure of all personal data, regardless of context.
2. **Broad and Vague Definition of 'Personal Information':** The **DPDP Act** defines **personal information** **expansively**, encompassing even public officials' degrees, service records, and disciplinary proceedings. This may render previously accessible information non-disclosable.
3. **Undermines Judicial Balancing Principles:** The **Supreme Court in K.S. Puttaswamy v. Union of India (2017)** upheld privacy but also emphasized the need for proportionality and coexistence with transparency. The DPDP Act disregards this balance, despite no judicial recommendation for amending the RTI Act.

Implications for Transparency and Accountability

1. **Weakening Social Audits and Anti-Corruption Efforts:** RTI has historically exposed scams like Adarsh Housing and ration fraud. Post-amendment, access to critical public service data may be blocked.

2. Undermining Citizens' Democratic Parity: The deleted proviso that citizens should access the same information as Parliamentarians weakens legislative parity and civic empowerment.

3. Opaque Governance: Public authorities may now classify important administrative details—like qualifications or transfers of officials—as private, stalling accountability.

Way Forward

1. Reinstating the public interest clause in RTI through legislative revision.
2. Clear and narrow definition of “personal information” with defined exceptions.
3. Upholding proportionality as a constitutional doctrine in balancing rights.

Conclusion

While privacy is vital, its protection must not come at the cost of transparency. The DPDP Act's amendment to the RTI Act risks reversing the democratic gains of the past two decades. A nuanced, rights-based approach is essential to maintain equilibrium between privacy and the **public's right to know**.

Q.10) Critically examine the benefits and limitations of concentrating foreign universities in a single enclave like GIFT City. Suggest alternative strategies to leverage international collaborations for enhancing India's higher education system.

Introduction

India's aspiration to internationalize higher education has taken a definitive shape through the establishment of **foreign university campuses**, with Gujarat's **GIFT City emerging as a central node**. While this initiative aligns with the **National Education Policy (NEP), 2020**, and reflects proactive policy and diplomatic efforts, concentrating such efforts in a single enclave presents both opportunities and significant limitations.

Benefits of GIFT City as a Foreign University Hub

- 1. Specialized Regulatory Framework:** GIFT City benefits from the **International Financial Services Centres Authority (IFSCA) Regulations, 2022**, allowing autonomy from **UGC guidelines**, which fosters innovation and fast-tracked approvals.
- 2. Global Branding and Visibility:** High-level **diplomatic engagements—like the UK-India Economic and Financial Dialogue**—have enhanced GIFT City's international profile, attracting institutions like Deakin University and **Queen's University Belfast**.
- 3. Sectoral Focus and Infrastructure:** The zone's emphasis on finance, fintech, and STEM education aligns with India's developmental needs and offers integrated urban infrastructure conducive to international academic environments.

Limitations and Challenges

- 1. Geographic Centralization:** Concentration in one zone neglects India's diverse academic landscape. States like Tamil Nadu, Maharashtra, and Karnataka have proposed knowledge hubs (**e.g., KWIN City, Tamil Nadu Knowledge City**), which remain under-promoted.
- 2. Risk of Educational Monoculture:** Over-emphasis on a singular, **top-down model** may sideline regional aspirations and **restrict disciplinary diversity, community engagement**, and academic freedom.

3. Access and Equity Concerns: A single, **elite urban hub** may cater to affluent students, widening the urban-rural and rich-poor divide in access to global education.

4. Stunted Ecosystem Development: Higher education thrives in decentralized, culturally vibrant, and research-oriented environments—features not replicable in enclave-like zones alone.

Alternative Strategies for International Collaboration

1. Multi-City Internationalization Model: Encourage foreign universities to set up in emerging cities with regional academic **strengths (e.g., Pune, Hyderabad, Coimbatore)** to promote equitable development.

2. State-Level Empowerment and Incentives: Provide states with **greater autonomy, regulatory flexibility, and funding** to attract foreign institutions, as envisioned in **cooperative federalism**.

3. Virtual and Hybrid Global Campuses: Develop **joint degree programmes**, online collaborations, and faculty exchanges to democratize access and reduce infrastructure burdens.

4. Thematic Clusters and Research Parks: Create thematic **education hubs focusing on health, climate, AI, or humanities**, integrating foreign institutions into India's research ecosystem.

Conclusion

While GIFT City showcases India's commitment to educational globalization, over-reliance on a singular location limits its transformative potential. A distributed, inclusive, and collaborative model, rooted in India's diverse academic and cultural geography, is key to building a globally respected higher education system.