



The Hindu Important News Articles & Editorial For UPSC CSE

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Edition: International Table of Contents

Page 07	Question for the AI age do
Syllabus: GS 3: Science and	machines and humans learn the
Technology	same way
Page 10	What is the SC directive on sacred
Syllabus : GS 3 : Enviroment	groves?
Page 13	Trump or BRICS The quandary for
Syllabus: GS 2: International	Africa's governments?
Relations	
Page 13	Iran's currency plunges
Syllabus : Prelims fact	
In News	State Emblem of India
Page 08 : Editorial Analysis:	A Budget that is mostly good but
Syllabus : GS 3 : Indian Economy	with one wrong move
GURUKULAM	

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Page 07: GS 3: Science and Technology

The article explores the differences between human and articlal intelligence, highlighting their unique strengths and weaknesses, particularly in learning, adaptability, and energy efciency.



Question for the AI age: do machines and humans learn the same way?

Al's Rapid Advancement

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- Al has evolved from simple data categorization to performing highly complex tasks.
- In 2024, smartphones were introduced with built-in AI models.
- Five of the seven winners of the 2024 science Nobel Prizes were recognized for Al-related contributions.

How Humans Learn

- Machines can quickly analyze large datasets and predict patterns but struggle with understanding human motives.
- Human intelligence evolved to care for offspring, requiring an understanding of intentions.
- Learning in humans involves both immediate survival needs and adapting to changing environments.
- Unlike machines, human learning is continuous and shaped by real-world interactions.

The Role of Curiosity in Human Learning

- Unlike AI, children are naturally curious and learn by exploring their surroundings.
- Human learning involves multiple senses, making it richer than Al learning.
- AI models rely on pre-fed data, whereas humans acquire knowledge through direct experiences.

Efciency of Human Learning

- Humans require signicantly less data to learn effectively.
- AlphaZero, an Al model, played 40 million chess games to achieve mastery, while humans need only tens of thousands.
- Humans quickly adapt knowledge from one area to another, a skill AI struggles with.
- Human brains process information more slowly than AI networks but make faster decisions using generalization

Human Intelligence Vs. Articial Intelligence

- Where Humans Excel Over AI Humans are better at learning and adapting to new situations without retraining.
- The ability to apply knowledge across different contexts (transfer learning) remains a challenge for Al.
- Humans efciently learn motor skills, a complex task for AI due to multiple movement variables.
- The human brain is far more energy-efcient compared to AI systems.

Where AI Excels Over Humans

- Al models provide precise and consistent results without fatigue or emotional inuence.
- Al's exhaustive search for solutions often leads to innovative strategies, as seen in chess.
- Unlike humans, AI models do not get distracted and can perform repetitive tasks with accuracy.

Al's Contribution to Understanding Human Learning

- AI models help neuroscientists explore how the brain stores and retrieves memories.
- The success of AI has challenged previous beliefs about human learning processes.
- Al research is advancing symbolic and connectionist models of human cognition.
- Despite Al's progress, human learning remains unique and distinct.

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UPSC Mains Practice Question

Ques: Discuss the key differences between human learning and articial intelligence. How can understanding these differences contribute to advancements in AI and neuroscience? **(150 Words / 10 marks)**



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Page 10: GS 3: Enviroment

The Supreme Court of India directed Rajasthan to map and classify sacred groves as community reserves, creating a conict with the Forest Rights Act of 2006.

What is the SC directive on sacred groves?

What are the implications of the December 18 order? What did T.N. Godavarman v. Union of India establish about the definition of 'forest land'? How are sacred groves traditionally conserved by communities?

EXPLAINER

C.R. Bijoy

The story so far: n December 18, 2024, the Supreme Court directed Forest Department of Rajasthan to map on the Rajasthan to map on the ground and via stellite every 'sacred grove' in detail. They were to be identified irrespective of their size and based 'solely on their purpose and their cultural and ecological significance to the locular community." After mapping, the court directed the department to classify them as 'forests' and notify them as 'community reserves' under the Wildlife Protection Act (WLPA) 1972. Effectively, the decision would transfer the sacred

the decision would transfer the sacred groses from community protection to forest officialdom for the purposes of conservation. The move defies the Forest Rights Act (FRA) 2006, which by virtue of being enacted later overrides the WLPA, and which the government had intended to do the reverse: i.e. recognise traditional not customary rights over all forest lands and transfer them back from the Forest Department to gram sabhas. The sacred groves of Rajasthan, also known as 'orans', 'malvan', 'deo ghat', and 'baugh', number around 25,000 and cover about six lakh bectares of the State.

cover about six lakh hectares of the State

What was the case about? In T.N. Godavarman v. Union of India, the Supreme Court ordered that 'forest land' in Section 2 of the Forest (Conservation) Act, 1980, "will not only include 'forest' a Act, 1980, "will not only include 'lorest' understood in the dictionary sense, but also any area recorded as forest in the government record irrespective of the ownership of the land". The court then directed state governments to constitute expert committees to identify areas that the time that the sunderstanding of forest land". In 2004, the expert committee report of the Raisabana government tilentified

met this understanding of 'forest land'.

In 2004, the expert committee report of the Rajasthan government identified only those sacred growes that fulfilled the criteria of 'deemed forests' – that is, trees covering's hectares of land with at least 200 trees per hectare were classified as forests', while the remainder was not.

The supreme Court's Central soft of the supreme Court's definition of forest land'. The CEC also said all such areas diverted for non-forestry purposes before 1980 could be exempted. The apex court agreed with the CEC and directed Rajasthan to implement the recommendations post-haste in 2018. In early 2024, the Rajasthan government – responding to interfocutory applications seeking directions to implement this order – said that sacred grows were being identified and documented as 'forest lands'. Ironically, the Rajasthan Forest Policy 2023 omitted the detailed framework for its 2010 rooke. the protection of sacred groves specified

in its 2010 policy.

The present order came in response to a challenge to these positions at the Supreme Court.

What do sacred groves mean to communities?
Sacred groves are community-regulated and conserved patches of forest land. They are created and managed traditionally by communities in various ways deeply rooted in their identity. The groves are kept inviolate through customary laws and taboos, many of which completely prohibit the extraction of any resources in any form, except for custodians to access medicinal plants.



terms of the community's relationship with its spirits and gods. India is estimated to have 1-10 lakh

India is estimated to have 1-10 lakh sacred groves of this nature – the highest in the world. They are called 'devara' kadu' in Karnataka, 'devban' in Himachal Pradesh, 'kuvu' and 'sarpa kuvu' in Kerala, 'sarna' in the Chota Nagpur Plateau region, 'devban' in Chhattisgarh, 'jahera' or 'thakuramma' in Odisha, 'devband' in the Muria. the Madia. and the Madia. 'jahera' or 'thakuramma' in Odisha, 'devgadi' by the Muria, the Madia, and the Gond adivasis of Maharashtra and Chhattisgarh, 'ki law lyngdoh', 'ki law kyntang' or 'ki law miam' in Meghalaya, 'sabarkamtha', 'dahod' or 'banaskantha' in Gujarat, and so forth. They are often associated with

They are often associated with temples, monasteries, shrines, pilgrim sites, and/or burial grounds. These sites are thus also repositories of various herbal medicines and gathering points for local healers, as much as they are biodiversity hotspots. They are also, frequently, sources of perennial streams that support the growth of unique and endenic flora and fauna. Local legends, myths, and beliefs surround sacred growes, and communities have transmitted them orally through several generations as a matter of

have transmitted them orally through several generations as a matter of conserving their cultural identities. Communities: relationships with their groves have also helped mitigate the effects of floods, landslides, and droughts on their lives while stabilising the soil and preventing crossion. Anthropologists have also documented the impact of sacred grows on their respective communities! groves on their respective communities' mental and physical well-being.

What are community reserves? The WLPA 2002 introduced the category of Protected Areas called 'community reserves', in addition to 'national parks'

The community, or even the individual, is thus required to prevent any offences specified in the WLPA, assist the offences specified in the WLPA, assist the authorities in arresting any offenders, report the "death of any wild animal," and prevent or extinguish any fires. The offences include damaging the boundary marks, teasing or molesting wild animals, littering in the community reserve, setting fires or allowing a fire to burn, and using any chemical substances that endanger wildlife.

Further, a land-use pattern within a community reserve cannot be changed without the approval of the reserve management committee and the State

community reserve cannot be changed without the approval of the reserve management committee and the State government. The Chief Wildlife Warden, under whose jurisdiction community reserves fall, effectively has overall control of the reserve and its management plan.

The Supreme Court's directions also obligate the State government to constitute a 'Community Reserve Management Committee' to conserve, maintain, and manage the reserve and to protect wildlife and habitast. This committee is to have at least five members nominated by the gram panchayat (or members of the gram sabha if there is no gram panchayat and a representative of the Forest or Wildlife Department in whose jurisdiction the community reserve is located. If the reserve is on private land, the committee will consist of the land owner, a representative of the Forest or Wildlife Department, and a representative of the Forest or Wildlife Department, and a representative of the Concented Panchayat or tribal community.

The elected chairperson of the

community.

The elected chairperson of the committee will be designated the reserve's 'Honorary Wildlife Warden'.

The court also recommended that the Union Environment Ministry identify and

and management.

How will the Forest Department's takeover clash with the FRA's provisions? If sacred groves had fallen under the FRA's purview, they would have been part of community forest resources. According to the FRA, a community forest resources is the "customary common forest land within the traditional or customary boundaries of the village... including reserved forests, protected forests and protected areas such sanctuaries and national parks to which the community had traditional access". Thus, the gram sabhas would have been the statutory authority to protect,

Thus, the gram sabhas would have been the statutory authority to protect regenerate, conserve or manage community forest resources, along with the wildlife, flora, and biodiversity within. The gram sabhas would also have been responsible for preventing activities that harm their cultural and natural heritage. To this end, the sabha would have to constitute its own Community Forest Resource Management Committees to develop and execute the managed plan approved by the gram sabha. And State governments would be duty-bound to support these plans.

governments would be duty-bound to support these plans.

All sacred groves in forest areas are currently subsets of community forest resources, which are in turn under the jurisdiction of gram sabbas, and not the Forest or the Wildlife department. All sacred groves outside forest land, if any, also come under the FRA's purview if a proposal to notify them as 'forest land' comes into being. In sum, notifying sacred groves as community reserves controlled by the Forest Department could conflict with the customs of controlled by the Forest Department could conflict with the customs of communities, and with the commun forest resources notified by the FRA, which complies with the customs by bringing them under its governance.

THE GIST

The Supreme Court ordered the Rajasthan Forest Department to map and classify sacred groves as 'forests' and 'community reserves' under the Wildlife

sacred groves from community-based management to the Forest Department.

community protection to Forest Department management could undermine the traditional governance of these areas.

Supreme Court's Order on Sacred Groves

On December 18, 2024, the Supreme Court ordered the Forest Department of Rajasthan to map sacred groves.

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- Sacred groves will be classied as 'forests' and notied as 'community reserves' under the Wildlife Protection Act (WLPA) 1972.
- This decision moves the control from community management to forest ofcials for conservation.
- This clashes with the Forest Rights Act (FRA) 2006, which supports community rights over forest lands.
- Rajasthan has around 25,000 sacred groves, covering six lakh hectares of land.

Background of the Case

- In the 1990s, the Supreme Court dened 'forest land' to include any land recorded as forest by the government.
- In 2004, the Rajasthan government identied some sacred groves as 'deemed forests' based on a narrow criterion.
- The Supreme Court disagreed, insisting on a broader denition of forest land.
- In 2018, the Court directed Rajasthan to follow this broader denition.

What are Sacred Groves?

- Sacred groves are patches of forest managed by local communities through traditions and beliefs.
- They are protected by customs, with no resource extraction allowed except for medicinal plants.
- Sacred groves are biodiversity hotspots and often linked to temples, shrines, or pilgrimage sites.
- India has 1 to 10 lakh sacred groves, the highest in the world.
- They help control oods, droughts, and soil erosion, and support local wildlife.

What are Community Reserves?

- The WLPA 2002 introduced 'community reserves' as a type of protected area.
- These reserves are set up by communities to conserve wildlife and habitats.
- Rules in community reserves prevent activities like poaching, re-setting, and habitat destruction.
- A management committee oversees the reserve, with local community members and ofcials.

Conict with the Forest Rights Act (FRA)

- Sacred groves are considered 'community forest resources' under the FRA.
- The FRA gives gram sabhas (village councils) the right to manage these resources.
- Under FRA, sacred groves fall under the control of local communities, not the Forest or Wildlife Department.
- By classifying them as community reserves, the Forest Department's control conicts with community rights.

Conclusion

- The Supreme Court's decision to classify sacred groves as community reserves may clash with the FRA.
- This creates a conict between modern conservation methods and traditional community management of sacred groves.

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UPSC Mains Practice Question

Ques: Examine the potential conict between the Supreme Court's directive to classify sacred groves as community reserves under the Wildlife Protection Act and the provisions of the Forest Rights Act, 2006. (150 W10 m)



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Page 13: GS 2: International Relations

The article discusses Africa's mineral wealth, the impact of U.S. trade policies under Donald Trump, and the continent's struggle to choose between global powers for resource development.

Trump or BRICS? The quandary for Africa's governments

Clyde Russell

Beyond the short-term volatility and uncertainty created by U.S. President Donald Trump's machinations, it's likely that the longer-term trend of the world splitting into two trading blocs is two trading

Stripping away Mr. Trump's bluster and often away contradictory actions, the message seems to be fairly clear. Mr. Trump's view of the world is that you are either with the United

States or against it. That presents a dilemma for Africa's mineralrich countries as they want to develop their resources to provide them with the they also want to stay lar

gely neutral.

But it's increasingly like-ly that at some level Afri-can countries will have to decide whether they are more in the Trump camp, or whether they prefer to do business with the Chi-na-led BRICS group.

There are risks and rewards under both scenarios, and the circumstance es of each African country may cause to lean one way or another

The continent is already a major producer of minerals, but its untapped reserves are the major prize in coming decades, espe-cially if the energy transition accelerates.

Africa is richly en-dowed, with an estimated 20% of global copper re-serves, about the same for aluminium raw materials.



The circumstances of each African country may cause them to lean either way. REUTERS

50% of manganese and cobalt, 90% of platinum group metals, 36% of chro-mium, as well as reserves of lithium, uranium, gold

But developing its min-

eral resources has been often too challenging, given

political instability and corruption, poor infras-tructure, lack of capital and legal frameworks that make long-term invest-

However, the increasing appetite of the world for minerals is likely to set off a new scramble for Africa, this time Africans will have more say in how it unfolds.

ers is the challenge for Afri-

can countries.

On the one hand the West still offers deep capi-tal reserves, sophisticated equity markets and investors and skills and experience in mining.

Not beggars

But Mr. Trump is undermining these advantages with his tariffs and threats to withhold aid and other funding, as well as his ha bit of turning on traditional allies and flip-flopping pol-icies. The main issue with Mr. Trump is his apparent transactional view of the world, in which there must always be a winner and a loser, and he always wants to be the winner. This means getting a mutually beneficial deal from the

U.S. is going to be more difficult under Mr. Trump.

It was this frustration that boiled over in the remarks on Monday when South Africa's Resources Minister Gwede Mantashe said Africa should withhold minerals from the U.S. if Mr. Trump cuts aid.

"If they don't give us money, let's not give them minerals. We are not just beggars," Mr. Mantashe said. "We cannot continue to debate these minerals based on the dictates of some developed nations as if we have no aspirations to accelerate Africa's industrialisation," he added.

These comments may be unwise in that they may serve to antagonise Mr. Trump, but they may also sharpen some thinking in the West on how best to get

Should Africa be looking more toward China and the rest of the BRICS nations, as the best option to unlock its mineral wealth?

The experience here has been somewhat mixed. While China has been willing to develop mines in want to do it mainly using its own people and pro-cesses, and it wants to export raw ores and benefi-

This has limited the benefits to African countries, but there may be an option to use legislation forcing companies to commit to domestic downstream operations as part of access to raw materials.

(The views expressed here are those of the auth or, a columnist for Reuters)

The U.S. Trade Policies and Africa's Dilemma

- President Donald Trump's trade approach, including tariffs, creates a situation where countries must choose between supporting the U.S. or aligning with China and the BRICS nations.
- African countries, rich in minerals, face a dilemma.
- They want to develop their resources but also wish to stay neutral in this global divide.

Africa's Mineral Wealth

- Africa holds signicant global mineral reserves.
- This includes 20% of the world's copper, 50% of manganese and cobalt, 90% of platinum group metals, and valuable reserves of lithium, uranium, gold, and rare earths.
- These resources will be highly important in the future, especially with the energy transition and increasing global demand for these minerals.

Challenges in Resource Development

- Despite its wealth, Africa faces many challenges in resource development.
- Issues like political instability, corruption, poor infrastructure, lack of capital, and weak legal frameworks make longterm investment difcult.
- As global demand for minerals grows, Africa will likely have more power in determining how its resources are used. However, finding the right partners remains a key challenge.

Western Investments vs. China's Approach

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- Western countries, especially the U.S., offer capital, expertise, and experience in mining.
- But Trump's tariffs and threats to cut aid make working with the U.S. harder for African nations.
- Trump's "winner-takes-all" approach to global relations makes it more difcult for African countries to get mutually benecial deals with the U.S.

Africa's Growing Independence in Resource Management

- South Africa's Resources Minister Gwede Mantashe suggested that Africa should withhold minerals from the U.S. if aid is reduced. He argued that Africa should not be treated as a beggar.
- This reects a desire for Africa to take control of its resources and use them to drive industrialization and development, rather than follow the dictates of external powers.

China's Role and Its Impact on Africa

- China has been heavily investing in Africa's mining sector.
- However, China prefers to use its own workforce and processes. It also exports raw ores to process them in China, limiting the benets for African countries.
- There is potential for African nations to introduce laws that require foreign companies to process minerals locally. This could ensure that Africa benets more from its resources.

Conclusion

- Africa's mineral-rich resources position it as a key player in global trade.
- The continent must strategically choose between Western and China-led trade blocs to secure sustainable economic development.

UPSC Mains Practice Question

Ques : Examine the impact of global trade dynamics, particularly U.S. policies and China's involvement, on Africa's mineral resource development and its implications for the continent's future. (150 Words /10 marks)

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Page 13: Prelims fact

Iran's currency, the rial, hit a record low of 850,000 rials to \$1 on Wednesday.

Analysis of the news:

- The order includes halting Iran's oil exports and pushing for UN sanctions.
- Trump also hinted at wanting to negotiate a deal with Iran rather than imposing full sanctions.
- Iranian ofcials are waiting for a message from Trump on nuclear talks.
- Ordinary Iranians are worried about the impact on their daily lives and freedom.
- Iranian state media have praised Trump's moves, seeing them as weakening opposition groups.
- The U.S. Agency for International Development (USAID) budget cuts could affect funding for Iranian activists and opposition gures.

What is "maximum pressure" policy?

- The "maximum pressure" policy is a strategy where a country applies heavy economic and diplomatic sanctions to force another nation to change its behavior.
- The "maximum pressure" policy against Iran involves imposing severe economic sanctions, particularly targeting its oil exports, banking, and key industries.
- The goal is to force Iran to halt its nuclear activities and curb its inuence in the region.
- The policy includes withdrawing from international agreements, such as the nuclear deal, and reinstating sanctions that were previously lifted.
- The aim is to pressure Iran into negotiating a new deal that addresses broader concerns, including nuclear weapons and regional stability.
- Critics argue that it harms the Iranian population while failing to bring the desired change in Iran's policies.

Iran's currency plunges



Associated Press

Iran's currency plunged Wednesday to a record low of 850,000 rials to \$1 after U.S. President Donald Trump ordered a restart to the "maximum pressure" campaign on Tehran.

Mr. Trump's order, signed Tuesday night, calls for halting Iran's oil exports and pursuing a "snapback" of United Nations sanctions on Iran.

Mr. Trump's order, signed Tuesday night, calls for halting Iran's oil exports and pursuing a "snapback" of United Nations sanctions on Iran However, he also suggested he didn't want to indeed with Iran.

The move comes as Mr. Trump's moves to freeze spending on foreign aid and overhaul, or even end, the U.S. Agency for International Development have been lauded in Iranian state media. At the same time, Iranian officials appear to be signaling that they are waiting for a message megotiate over Tehran's rapidly advancing mcelear program. At stake are potentially billions of dollars withheld from Iran through crushing sanctions and the future of a program on the precipice of enriching weapons-grade uranium. Meanwhile, ordinary Iranians worry what all this could mean for them:

"it encourages hard-lieuse they feel the U.S. would have less capability in supporting Iranian people who seek freedom," said Maryam Faraji, a 27-year-old waitress in northern Tehran.

The state-run IRNA news agency said that "cutting the budget of foreign-based opposition" could "affect the sphere of relations" between Tehran and Washingnot conservative Hamshhari daily, described Iran's opposition as "counterrevolutionaries" who had been "celebrating" Mr. Trump's election as heralding the "last days of life of the Islamic Republic."

Even the reformist newspaper Hammihan compared it to a "cold shower" for opponents of Iran's theocracy abroad, an idea also expressed by the Foe day Ministry spokesman, said during a briefing with reporters on Monday. "They are wages paid in exchange for services."

"This is a clear sign of the Islamic Republic."

Even the reformist newspaper Hammihan compared it to a "cold shower" for opponents of Iran

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In News: State Emblem of India

The Union Home Ministry recently asked State governments to prevent the misuse and improper depiction of the State Emblem of India, emphasising that the Lion Capital logo is incomplete without the motto—Satyamev Jayate—in Devanagari script.



About the State Emblem of India:

- It is an adaptation of the Lion Capital of Ashoka at Sarnath.
- In the original, there are four lions, mounted back-to-back, on a circular abacus, which itself rests on a bell-shaped lotus. The frieze of the abacus has sculptures in high relief of an elephant, a galloping horse, a bull, and a lion separated by intervening Dharma Chakras.
- In the State emblem, adopted by the Government of India on 26 January 1950, only three lions are visible, the fourth being hidden from view.
- The wheel appears in relief in the centre of the abacus with a bull on the right and a horse on the left and the outlines of other wheels on the extreme right and left.
- The bell-shaped lotus has been omitted.

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- Below the representation of the Lion Capital, Satyameva Jayate is written in Devnagari Script, which is also the National Motto of India.
- The words are a quote from the Mundaka Upanishad and is translated as "Truth alone triumphs."
- The use of the State Emblem of India is restricted to the authorities/purposes specified in the State Emblem of India (Prohibition of Improper Use) Act, 2005, and the State Emblem of India (Regulation of Use) Rules, 2007.



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Page : 08 Editorial Analysis A Budget that is mostly good but with one wrong move

he Union Budget has got many things right. Its projection of nominal GDI growth for 2025-26, at 10.1%, is reasonable and acceptable. The Economic Survey 2024-25 had indicated a real GDP growth in the range of 6.3%-6.8% for 2025-26. This provides some buffer if growth picks up more. The increase in the capital expenditure of the government in 2025-26 over the revised estimates of 2024-25 is estimated at ₹1.03 lakh crore. But the capital expenditures in 2025-26, at ₹11.2 lakh crore, are nearly the same as was indicated in the Budget of 2024-25 at ₹11.1 lakh crore.

The overarching aim of the Budget was to accelerate growth and push India towards a developed country status. The required rate of real growth to achieve this is estimated differently including a rate of 8% in the Economic Survey for 2024-25. In any case, the country needs a definite pickup in growth rate. The various measures indicated in the Budget are welcome. In fact, some of these could have been implemented even earlier. The concession given to the 'middle-class' in terms of income-tax is welcome as a relief. But its impact on demand depends on the marginal propensity to consume of the households who are expected to largely benefit from these concessions and their consumption

Gross tax revenues

Growth in the Government of India's gross tax revenues (GTR) have trended downwards in recent years. The buoyancy of GTR has fallen for three successive years from 1.4 in 2023-24 to 1.15 in 2024-25 (RE) and then to 1.07 in 2025-26 (BE). As a result, growth in the Government of India's GTR has kept falling from 13.5% in 2023-24 to 11.2% in 2024-25 (RE), and to 10.8% in 2025-26 (BE). Within the government's tax revenues, the growth rate of Goods and Services Tax (GST) has also fallen from 12.7% in 2023-24 to 10.9% in 2025-26 (BE).

In fact, the structure of the government's taxation has moved away from indirect to direct taxes. The share of direct taxes in the government's GTR has increased from 52% in



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Some of the measures indicated in the Budget could have been implemented even earlier; moving away from 'fiscal deficit' as an indicator is an incorrect step

2021-22 to 59% in 2025-26 (BE) which is a welcome development. Within direct taxes, however, it is personal income-tax which has performed better than corporate income-tax in terms of growth and buoyancy.

However, even in the case of personal income-tax there has been a fall in growth from 25.4% in 2023-24 to 20.3% in 2024-25 (RE) and 14.4% in 2025-26 (BE). This fall in growth in 2025-26 (BE) is partly due to the announced income-tax concessions. In the case of corporate income-tax, the growth in 2024-25 (RE) is quite low at 7.6%. This growth has been raised to 10.4% in 2025-26 (BE). On the whole, assumptions regarding the government's tax revenue growth in 2025-26 (BE) appear to be realistic.

In the case of non-tax revenues, the main contribution has been in the form of dividends from the Reserve Bank of India and public sector companies, which together accounted for about ₹3.25 lakh crore in 2025-26 – an increase of ₹35,715 crore over the revised estimates. Thus, the non-tax revenues have been raised from ₹5.3 lakh crore (RE) to ₹5.8 lakh crore in 2025-26 (BE).

Level of government expenditure

Tax and non-tax revenues, non-debt capital receipts and fiscal deficit together determine the size of government expenditure. As discussed, a gross tax revenue growth at a lower level of 10.8% appears to be realistic. Given the commitment to fiscal consolidation, the size of government expenditure as a percentage of GDP had to be reduced from 14.6% in 2024-25 (RE) to 14.2% in 2025-26 (BE). Growth in total expenditure, at 7.6% in 2025-26 (BE), is lower than the budgeted nominal GDP growth at 10.1%.

In fact, this was so even in 2024-25 (RE), when the government's total expenditure growth was 6.1% as against the nominal GDP growth of 9.7% as per the first advanced estimates. However, there has been a steady improvement in the quality of government expenditure as the share of capital expenditure in total expenditure has been improving. In fact, this share has improved by 10% points over the period from 2020-21 to 2025-26 (BE). Given the contemporary context, the Government of India has to build up

large-scale Artificial Intelligence (AI) infrastructure in order to facilitate the adoption of emerging technologies. In this context, China has taken a clear lead. The United States has recently announced an investment of \$500 billion for AI infrastructure. In the field of AI, India's technology companies have failed to anticipate developments. India should have done what China did. Perhaps, India should push these companies for research and development, by offering some tax concessions, if necessary.

A less transparent fiscal health indicator

One wrong measure introduced in the Budget is to move away from fiscal deficit as an indicator of fiscal prudence. Contrary to what is stated in the Budget document, we are moving from a transparent to a less transparent indicator. As per the glide path given in the Medium-Term Fiscal Policy Cum Fiscal Policy Strategy Statement of the 2024-25 Budget, the fiscal deficit was to be brought down to below 4.5% by 2025-26.

However, in the 2025-26 Budget, the practice of giving a glide path in terms of fiscal deficit is being discontinued. It has been stated that from now on, the focus will be on reducing the debt-GDP ratio annually. In the annexure statement titled 'Statements of Fiscal Policy as required under the Fiscal Responsibility and Budget Management (FRBM) Act, 2003', alternative paths of the debt-GDP ratio with nominal GDP growth assumptions of 10.0%, 10.5% and 11.0% are given.

The glide paths are indicated in terms of alternative growth assumptions and alternative assumptions regarding mild, moderate, and high degrees of fiscal consolidation. This makes the whole exercise vague and non-transparent. It is better for fiscal discipline to indicate specific fiscal deficit target for different years and the corresponding debt-GDP ratios for those years. It should clearly be shown by what year the FRBM Act targets are to be achieved. A larger claim on the available investible resources by the government will make it difficult for private investment to pick up.

The views expressed are personal

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GS Paper 03: Indian Economy

PYQ (UPSC CSE (M) GS-3 2013): What are the reasons for introduction of Fiscal responsibility and Budget Management (FRBM) act, 2003? Discuss critically its salient features and their effectiveness. (200 W/10 M)

UPSC Mains Practice Question: Critically analyze the impact of the Union Budget 2025-26 on economic growth, scal consolidation, and taxation structure. How does the shift from scal decit targets to debt-GDP ratio affect transparency in scal policy? (250 W /15 M)

Context:

- The Union Budget 2025-26 aims to accelerate economic growth while ensuring scal prudence.
- It focuses on capital expenditure, tax revenue trends, and scal policy shifts, including changes in decit targets.

GDP Growth and Capital Expenditure

- The government has projected a nominal GDP growth of 10.1% for 2025-26, which is considered reasonable.
- The Economic Survey 2024-25 indicated real GDP growth between 6.3%-6.8% for 2025-26, allowing some exibility if growth increases.
- Capital expenditure for 2025-26 is projected at ₹11.2 lakh crore, an increase of ₹1.03 lakh crore over 2024-25 (RE).
- However, this is nearly the same as the ₹11.1 lakh crore estimated in the previous budget.

Need for Higher Economic Growth

- The budget aims to accelerate growth and push India towards developed country status.
- A real GDP growth rate of 8% is considered necessary to achieve this goal. While several measures introduced in the budget are benecial, some could have been implemented earlier.
- Income tax relief for the middle class is expected to boost demand, but its effect depends on household consumption behavior.

Trends in Indian Economy

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- **Declining Revenue Growth:** The overall revenue growth has been slowing down over the past three years.
- **→ Tax Buoyancy Reduction:** The efciency of tax collection in relation to economic growth has decreased.
- Slower GST Growth: The growth rate of GST revenue has declined compared to previous years.
- ▶ Shift Towards Direct Taxes: Direct taxes now form a larger share of total revenue compared to earlier years.
- Personal Income Tax vs Corporate Tax: Personal income tax has shown stronger performance than corporate tax but has slowed due to tax concessions.
- **Corporate Tax Recovery:** Corporate income tax is expected to grow at a better rate in the coming year.

Non-Tax Revenues

- Non-tax revenues, mainly from RBI and public sector dividends, increased to ₹3.25 lakh crore in 2025-26, up by ₹35,715 crore from 2024-25 (RE).
- Development of the Property o

Government Expenditure and Fiscal Consolidation

- **Declining Government Expenditure:** The government's spending as a share of GDP is set to decrease due to efforts to manage the scal decit.
- Slower Expenditure Growth: Government spending is growing at a slower pace than the overall economy.
- **▶ Improved Spending Quality:** A greater portion of government funds is being directed toward long-term investments in infrastructure.
- → Al Investment Importance: Strengthening Al infrastructure is crucial as global leaders like the U.S. and China are advancing rapidly in this sector.
- Need for Al Incentives: The government should consider tax benets to boost Al research and development in India.

Concerns Over Fiscal Transparency

- Shift in Fiscal Focus: The budget moves away from using the scal decit as the main measure of nancial discipline.
- Previous Target: Earlier, there was a clear goal to reduce the scal decit below 4.5% by 2025-26.

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- New Approach: The focus is now on lowering the debt-to-GDP ratio instead of setting a specic scal decit target.
- Lack of Clarity: The new strategy is unclear, as it depends on different economic growth scenarios.
- ▶ Need for a Clear Target: A dened scal decit goal would help maintain nancial discipline and prevent excessive government borrowing, which can impact private investment.

Conclusion

- The Budget 2025-26 aims to sustain economic growth while maintaining scal discipline.
- Capital expenditure remains a priority, but AI infrastructure investment needs more focus.



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