2nd July, 2024

1. Agenda of the 16th Finance Commission GS 3 (Economy)

 Why in the News: The 16th Finance Commission (FC), under the chairmanship of Dr. Arvind Panagariya, focuses on devolution to local bodies, highlighting challenges in urban fiscal devolution in India.

Background:

- Article 270 of the Constitution provides for the scheme of distribution of net tax proceeds collected by the Union government between the Centre and the States.
- The taxes that are shared between the Centre and the States include corporation tax, personal income tax, Central GST, the Centre's share of the Integrated Goods and Services Tax (IGST) etc.

What is on the agenda for the

16th Finance Commission?

- This division is based on the recommendation of the **Finance Commission** (FC) that is constituted every five years as per the terms of **Article 280**.
- Apart from the share of taxes, States are also provided grants-in-aid as per the recommendation of the FC.
- The divisible pool, however, does not include cess and surcharge that are levied by the Centre.

About Finance Commission:

- The FC is constituted every five years and is a body that is exclusively constituted by the Union Government.
- It consists of a chairman and four other members who are appointed by the President.
- The Finance Commission (Miscellaneous Provisions) Act, 1951, has specified the qualifications for chairman and other members of the commission.
- The Union government has notified the constitution of the 16th Finance Commission under the chairmanship of Dr. Arvind Panagariya for making its recommendations for the period of 2026-31.
- Composition of the Finance Commission:
 - Chairman: The Commission is headed by a Chairman who is selected from among individuals with experience in public affairs.
 - Members: There are four other members who are appointed by the President of India. The qualifications for these members include:
 - ◆ A person who is or has been a judge of a High Court or qualified to be appointed as one.
 - ◆ A person with knowledge of finance and accounts of the government.
 - A person with experience in financial matters and administration.
 - A person with special knowledge of economics.

• Functions of the Finance Commission:

- **Distribution of Net Proceeds**: Recommend how the net proceeds of taxes should be distributed between the Centre and the states, and the allocation of the same among the states.
- **Grants-in-Aid**: Determine the principles governing the grants-in-aid to the states by the Centre from the Consolidated Fund of India.
- Improving Fiscal Management: Suggest measures needed to augment the Consolidated Fund of a state to supplement the resources of the Panchayats and Municipalities in the state.
- Any Other Matter: Address any other matter referred to it by the President in the interests of sound finance.
- Are Recommendations Made by the Commission Binding?
 - The recommendations made by the Finance Commission are of an advisory nature only and therefore, **not binding upon the government**.
 - It is up to the Government to implement its recommendations on granting money to the states.
- Agenda of the 16th Finance Commission:
 - The 16th Finance Commission (FC) has begun its work, primarily focusing on the devolution of the consolidated fund.

- Since the 73rd and 74th constitutional amendments, local bodies have gained significant recognition within the federal system.
- These amendments introduced sub-clauses 280(3)(bb) and (c), which mandate the FC to recommend measures to augment State consolidated funds for supporting panchayats and municipalities.

About Urban Areas:

- Cities, contributing around 66% of India's GDP and 90% of government revenues, are crucial for national development.
- Despite their importance, financial support for urban areas remains insufficient.
- The World Bank estimates \$840 billion is needed for urban infrastructure over the next decade.
- Intergovernmental transfers (IGTs) to Urban Local Bodies (ULBs) in India are only about 0.5% of GDP, significantly lower than in other developing countries.
- This inadequate financial devolution hampers city productivity and quality of life. IGTs, although vital, need to be more predictable and equitable to support ULBs effectively.

Need for Increase in IGTs:

- The introduction of the Goods and Service Tax (GST) has reduced ULBs' tax revenue (excluding property tax) from about 23% in 2012-13 to around 9% in 2017-18.
- IGTs from States to ULBs are very low, with State Finance Commissions recommending only about 7% of States' own revenue in 2018-19. Increasing the quantum of IGTs as a percentage of GDP is necessary.

Need for the Updated Census Data:

- Without the 2021 Census, relying on 2011 data for fiscal planning is inadequate.
- India has about 4,000 statutory towns, an equal number of Census towns, and around 23,000 villages that are essentially urban.
- The 16th Finance Commission must consider this and the migration to Tier-2 and 3 cities.
- The 15th FC's principles need revisiting, particularly regarding property tax, GST alignment, pollution mitigation, primary healthcare, and essential services.
- The 16th FC should aim to double IGTs to urban areas.

2. <u>Manufacturing Purchasing Managers' Index or PMI</u> GS 3 (Economy)

Why in News:

- Despite having elevated inflationary pressures, India's manufacturing activity in June witnessed a rebound, thanks to strong demand leading to the fastest rate of hiring in more than 19 years. The seasonally adjusted HSBC India Manufacturing Purchasing Managers' Index or PMI increased from 57.5 in May to 58.3 in June, indicating a sharper improvement in business conditions. In PMI parlance,
 - print above 50 means expansion
 - while, a score below 50 denotes contraction

PMI signals manufacturing rebound

HSBC India's June survey of purchasing managers shows fresh hires by manufacturers rose to a 19-year high; consumer



Producers' optimism The per about prospects in the coming year slid to a threemonth low, with about 29% expecting growth over put charges.
Although input costs n
ceded from May level
they were still among th
ighest in two years. Fee
back from about 400 firm
surveyed for the index su
gested that staff expens
intensified in June, alon
with rising costs of trat
sportation and materia
used as inputs such as ali

of expansion was well above its long-run average," HSBC said.
"Manufacturers were able to pass on higher costs to customers, as demand remained robust, resulting in improved margins," said Maitreyi Das, global economist at HSBC. "While the overall outlook for the manufacturing sector remains positive, the future output index receded to a three

What is manufacturing PMI?

- Manufacturing PMI, or Purchasing Managers' Index, is an economic gauge derived from monthly surveys of companies.
- It assesses business conditions in manufacturing and services sectors.

■ Types of PMI

- Manufacturing PMI
- Services PMI
- PMI helps determine if conditions are expanding, contracting, or stable, offering insights into current and future economic health.
- Variables: For manufacturing PMI, surveys are sent to manufacturing firms with factual questions about key areas: new orders (30%), output (25%), employment (20%), suppliers' delivery times (15%), and stock levels (10%).

- A PMI number above 50 indicates growth, below 50 signals contraction.
- Started in 1948 by the Institute for Supply Management, PMI is produced globally.
- It's a leading indicator, often released before GDP data, providing early signals about economic trends. Investors and businesses use PMI to gauge economic conditions and make informed decisions.

3. Kuno's Chital Population

GS 3 (Environment)

Why in News: The Cheetah Project has made headlines due to plans to relocate surplus cheetahs from Kuno National Park to Gandhi Sagar Wildlife Sanctuary. This decision follows concerns over a decline in the chital population, the primary prey for cheetahs, and challenges posed

by leopard predation.

Key Findings:

- Kuno National Park currently hosts 26 cheetahs, including 13
- Concerns arose as Kuno's chital population, the main prey for cheetahs, decreased by over 25% since 2022.
- Leopard predation on chital is a significant issue, despite efforts to control it.
- Introducing Larger Cats: To address the issue of leopard predation and balance the predator-prey dynamics, the project is considering introducing larger cats like tigers into Kuno. Tigers are viewed as natural competitors to leopards and could potentially reduce their impact on the chital population.

plan to move out excess cheetahs Leopards behind loss of prey base, so tigers as check an option

Chital stock dwindling in Kuno,

JAYMAZOOMDAAR

THE PROJECT Cheetah author ies have reached an in-principle lecision to shift surplus cheetahs rom Kuno national park to landhi Sagar wildlife sanctuary after the monsoon. At present, Kuno has 26 cheetahs, including

13 cubs and sub-adults.
This follows a reassessment
of Kuno's cheetah carrying capacity — pegged at 21 in the
Project Action Plan — necessid by a staggering loss of over 25 per cent since 2022 of Kuno's



were lost in a year at Kuno

prime cheetah prey base: the

chital population. The loss of an estimated 2,250 chital within a year has con founded the project team as the

seven cheetahs that managed to hunt in the wild outside the enclosures during that period took down only around 50 chital.

Since authorities have ruled out largescale poaching of chital for bushmeat due to the presence of too many boots and cameras on the ground, in the dock is Kuno's 90-strong leopard population.

ulation.
Ironically, leopards are also
frustrating the efforts to stock
and breed a cheetah prey base in
Gandhi Sagar wildlife sanctuary
by sneaking into a 60 sq km enclosure to feed on chiral bounds. CONTINUED ON PAGE 2

Project Challenges and Efforts: Efforts are ongoing to bolster the chital numbers in Kuno, including plans to bring in 1,500 more from other areas. Meanwhile, Gandhi Sagar Wildlife Sanctuary faces hurdles in removing leopards from prey enclosures to facilitate the introduction of cheetahs.

About Cheetal (Axis axis)

- Chital or cheetal (Axis axis), also known as the spotted deer, chital deer, and axis deer, is a deer species native to the Indian subcontinent.
- Distribution: India, Sri Lanka, Bangladesh, Bhutan and a small group in Pakistan
- Only males have antiers, and their bodies are larger than females.
- IUCN: Least Concern

Kuno National Park (Madhya Pradesh):

- Kuno National Park has spread over an area of 748.76 sq. km.
- Kuno River, one of the major tributaries of Chambal River flows through the entire length bisecting the National Park division.
- It is known for the leopard, Jackal, Chinkara.
- Gandhi Sagar Wildlife Sanctuary (Madhya Pradesh)
 - Gandhi Sagar is a wildlife sanctuary located at eastern Madhya Pradesh.
 - This region is known a **Nimar region** which touches its border with Rajasthan.
 - The forest of this sanctuary is part of **Khathiar-Gir dry deciduous forest**.
 - It is part of World famous Chaturbhuj Nala rock shelters.

4. NHRC issues notice over 'discrimination' by Foxconn GS 3 (Economy)

- Why in News: The National Human Rights Commission (NHRC) has taken note of reports alleging discrimination against married women at Foxconn's iPhone assembly plant in Sriperumbudur, Tamil Nadu. It issued notices to the Union Labour Ministry and the Tamil Nadu government, citing potential violations of gender equality norms under Indian and international law.
- **Ethical Issues**
 - The case revolves around ethical principles of equality and non-discrimination in employment, particularly concerning marital status. It raises questions about corporate ethics, gender inclusivity, and compliance with labor laws.

- Gender Equality: Discrimination based on marital status violates principles of equality and fairness. All individuals should have equal access to employment opportunities irrespective of their marital status.
- Corporate Responsibility: Companies have an ethical obligation to ensure non-discriminatory practices and create inclusive work environments. Excluding married women from employment opportunities contradicts these principles.
- Transparency and Accountability: Job seekers should have clear and transparent information about eligibility criteria. Misinformation or lack of clarity in hiring processes can lead to unfair practices and distrust.
- Compliance with Laws and Regulations: Companies must adhere to national and international laws that prohibit discrimination based on gender or marital status. Failure to comply reflects ethical lapses in governance and corporate culture.
- Impact on Individuals and Society: Discriminatory practices not only harm individual job seekers but also perpetuate gender inequalities in society. Upholding ethical standards in employment contributes to social justice and equal opportunities for all.
- Role of Regulatory Bodies: Regulatory bodies play a crucial role in safeguarding rights and enforcing ethical standards. Prompt action and investigation are essential to address grievances and uphold ethical norms in corporate practices

NHRC seeks reports from Centre, TN over Foxconn's 'iobs bar on married women'

EXPRESS NEWS SERVICE NEW DELHI, JULY 1

TAKING INTO account media re TAKING INTO account media re-ports that Foxconn India, a ma-jormanufacturer of Apple prod-ucts, is excluding married women from jobs at its iPhone assembly plant in Sriperumbudur, Tamil Nadu, the

ational Human Rights ommission (NHRC) on Monday sued notices to the Centre and National state government. "The Commission has ob-

served that the contents of the media reports, if true, raise a se-rious issue of discrimination against married women causing the violation of the right to equality and equal opportunity. Therefore, the Commission has issued notices to the Secretary, Union Ministry of Labour and Employment and the Chief Secretary, Government of Tamil

Nadu calling for a detailed report in the matter within one week," the NHRC said in a press release. The NHRC said the state must ensure that all companies follow norms, regulations and related labour laws, including the right(s) to health, diginity and equality; added that besides the Constitution, several international covenants and treaties like the International Covenant Civil and International Covenant Civil and Political Rights (ICCPR), and the International Covenant of Economic, Social and Cultural Rights (ICESCR) provide for non-discrimination on the basis of gen-

der in all forms of employment. Highlighting the accusations, made by the company's former employees, that Foxconn India had given hiring agencies verbal directions to this effect, the NHRC also took note of the alle gation that the company does cultural issues and societal pres

The NHRCs action comes after media reports last week dis-closed that jobseekers in the company were contacted be-tween January 2023 and May this year, leading to the revela-tion that only unmarried women were eligible for assembly jobs, despite no mention of any such policy in the company's advertisements.

"A WhatsApp chat between a married candidate and the hiring agency of the company w also quoted in the news repo stating that when the candidate asked about the salary and childcare facility offered by the company, the response was 'married not allowed'," the NHRC said in its press release

The company has denied all allegations of discrimination in employment based on marital status, gender, religion or any

5. Unchecked urbanisation renders Delhi Vulnerable to Flooding GS 3 (Infrastructure)

- Why in News: Recent heavy rainfall in Delhi has once again highlighted the chronic issue of urban flooding in the city, exacerbated by unchecked urban expansion inadequate drainage systems.
- How urbanisation is responsible?

Ph: 9100791003

- Delhi is undergoing one of the world's fastest urban expansions. The geographic size of Delhi almost doubled from 1991 to 2011. This urban expansion, however, has paid little heed to Delhi's natural topography.
 - Unchecked Urban Growth: Rapid and unplanned urbanization has expanded Delhi adequate consideration for natural drainage
 - Impact on Drainage: Historical areas of Delhi were built on higher ground, allowing rainwater to naturally drain. Modern construction in lowlying areas disrupts these natural drainage routes.
 - Concrete Jungle: Extensive concretization reduces the land's ability to absorb rainwater, leading to increased surface runoff during heavy rains.
 - Drainage **Infrastructure**: Existing systems, including nallahs (drains), are often insufficiently maintained and become clogged easily.
 - Role of Civic Authorities: Inadequate desilting of drains by civic bodies exacerbates flooding during monsoon seasons.
 - Infrastructure: The introduction of infrastructure like railways and roads in flood plains has further compromised natural drainage system

Floods & urbanisation in Delhi

The national capital is undergoing one of the world's fastest urban expansions, with little regard for the land's natural topography. This has left Delhi vulnerable to flooding during spells of intense rainfall



Email: iasncsc@gmail.com

■ In short, Delhi is grappling with urban flooding caused by a combination of factors: unprecedented and extreme rainfall patterns, silt buildup, and encroachment on floodplains

• How Sustainable urban planning can help?

- Cities must prioritise sustainable urban planning, comprehensive infrastructure development, and the preservation and restoration of natural water bodies to effectively address urban flooding.
- Measures such as green roofs, rainwater harvesting systems, and permeable pavements can reduce surface runoff and alleviate pressure on drainage systems. These solutions are crucial in building flood-resilient communities.

Government Measures for Urban Flooding

- Atal Mission for Rejuvenation and Urban Transformation (AMRUT) 2.0 Scheme: It provides for rainwater harvesting through storm water drains into water body (which is not receiving sewage/effluent) & creation/strengthening of storm water drains around water body.
- Other measures: Jal Shakti Abhiyan (JSA), Amrit Sarovar Mission, Atal Bhujal Yojana, Model Building Bye Laws (MBBL), 2016.

6. World's first Brain Implant to control Epileptic Seizures GS 3 (Science and Tech)

Why in News: Oran Knowlson, a teenager from the UK, recently made headlines for becoming the first person
worldwide to receive a brain implant aimed at reducing epileptic seizures. This deep brain stimulation (DBS) device,
surgically implanted into his skull and connected to electrodes targeting the brain's thalamus, has successfully
reduced his doubline saizures by an impressive.

How the world's first brain implant to control epileptic seizures works

reduced his daytime seizures by an impressive 80%.

About DBS device

- The DBS device delivers constant electrical impulses to disrupt seizure-causing brain signals.
- It offers a promising alternative for patients resistant to traditional anti-seizure medications or those for whom surgery is not viable.
- It is surgically placed in the skull, electrodes inserted into the thalamus (brain's relay station).
- Effectiveness: Reduced Knowlson's seizures by 80%.
- **■** Comparison with Existing Treatments:
 - ◆ Medication: Many patients are resistant (30%) to available anti-seizure drugs.
 - ◆ Surgery: Effective but invasive; removes seizure-originating brain areas.
 - Ketogenic Diet: High-fat, low-carb diet also used to control seizures.

Epilepsy

- Epilepsy is a condition characterized by recurring seizures due to abnormal brain activity.
- Causes include head trauma, brain tumors, infections, or genetics.
- It affects daily life and increases the risk of accidents.
- Epilepsy Prevalence in India: 3 to 11.9 per 1,000 people (Lancet, 2022).
- Effectiveness Comparison:
 - ◆ DBS: Reduces seizures by about 40%.
 - Surgery: Decreases seizures by nearly 90%.

7. Project Nexus

GS 3 (Economy)

Why in News: The Reserve Bank of India (RBI) has joined Project Nexus, a multilateral international initiative to
enable instant cross-border retail payments by interlinking domestic Fast Payments Systems (FPSs). India's Unified
Payments Interface (UPI) and FPSs of Malaysia, the Philippines, Singapore and Thailand will be interlinked through
Nexus. Going ahead, the platform can be extended to more countries.

What is Project Nexus?

- Project Nexus is a multilateral international initiative among central banks and financial authorities to enable instant cross-border retail payments.
- Initiated by: Innovation Hub of the Bank for International Settlements (BIS)

- It is the **first BIS Innovation Hub project** in the payments area to move towards live implementation
- It focuses on linking domestic instant payment systems (IPS) globally, enabling near-instantaneous transactions between countries.
- Founding members of Project: Central banks of India, Malaysia, Philippines, Singapore, and Thailand.
- The platform standardizes the connection process, making it easier for countries to join and allowing for rapid expansion of cross-border payment capabilities.

Key Objectives

- Standardization of IPS Connections: Instead of creating custom connections for each country, Nexus provides a unified platform where a single connection enables access to all member countries.
- Facilitation of Instant Cross-Border Payments: By interlinking FPSs, Project Nexus aims to reduce the time and cost associated with cross-border transactions, aiming for transaction times within 60 seconds in most cases.
- The platform is expected to go live by 2026.

Benefits of Project Nexus

Ph: 9100791003

Enhanced Efficiency: Standardized connections streamline the process of linking domestic FPSs, reducing the complexities involved in establishing cross-border payment networks.

What is Project Nexus that RBI has signed up for?

HITESHVYAS MUMBA, JULY1

THE RESERVE Bank of India (RBI

What is Project Nexus?



Email: iasncsc@gmail.com

of the platform?

Which countries have

- Reduced Costs: Near-zero costs to both senders and recipients are expected due to the efficiency gains and elimination of intermediary fees associated with traditional cross-border transactions.
- Improved Accessibility: Enables broader access to instant cross-border payments, promoting financial inclusion and facilitating smoother international transactions for individuals and businesses alike.

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MCQ Current Affairs 2nd July , 2024

1. SEBEX 2, recently seen in the news is a/an:

- a) multilateral naval exercise
- b) cutting-edge artificial intelligence system
- c) advanced surveillance satellite
- d) newly developed non-nuclear explosive

2. Consider the following statements with reference to the Low-Frequency Array (LOFAR):

A. It is a pan-European distributed radio interferometer.

B. It can observe in several directions simultaneously, which allows for a multi-user operation.

Which of the statements given above is/are correct?

- a) A only
- b) Bonly
- c) A and B
- d) Neither of two

3. Consider the following statements with reference to the Project Nexus:

A. It is an international initiative to enable instant cross-border retail payments by interlinking domestic Fast Payments Systems (FPSs).

B. It was conceptualized by the World Bank (WB).

Which of the statements given above is/are correct?

- a) A only
- b) B only
- c) A and B
- d) Neither of two

4. Consider the following statements with reference to the Supercapacitor:

A. It is energy storage device which include an electrode, electrolyte, separator and current collector.

B. It has high-power density, long durability and ultrafast charging characteristics.

Which of the statements given above is/are correct?

- a) A only
- b) B only
- c) A and B
- d) Neither of two

5. Consider the following statements with reference to Epilepsy:

A. It is a condition which is caused by abnormal electrical activity in the brain.

B. It can be controlled by using deep brain stimulation (DBS) devices.

Which of the statements given above is/are correct?

- a) A only
- b) B only
- c) A and B
- d) Neither of two

Answers Current Affairs 2nd July , 2024

