19th June, 2024

1. West Bengal Train Accident **Recent events of importance**

Why in News:

The recent collision near Siliguri in West Bengal, which resulted in nine fatalities and over 40 injuries, underscores the chronic problems plaguing this essential transport system.

Despite its significance in a densely populated and developing country, Indian Railways has seen seven major accidents since 1995, claiming over 1,600 lives.

Indian Railways, a critical lifeline for millions, is grappling with severe systemic issues that threaten its viability and safety and these tragedies highlight the urgent need for a comprehensive overhaul of the railway system.

An Analysis of Declining Performance, Market Share and Other Systematic Issues of Indian Railways

Stagnation in Freight and Passenger Volumes

- Since 2010-12, the total volume of both freight and
- passenger traffic has either stagnated or declined.
- This stagnation is particularly stark when compared to the growth rates of road and air transport, which have seen annual increases of 6-12%.
- Between 2014-15 and 2019-20, passenger traffic decreased from 995 billion pass-km to 914 billion passkm.
- During the same period, freight traffic remained between 682 and 739 billion net tonne-km.
- These figures highlight a failure to attract new business and retain existing customers, undermining the railways' role as a major transport provider.

Loss of Competitiveness to Road and Air Transport

- The stagnation in railway traffic volumes stands in sharp contrast to the dynamic growth seen in road and
- The road transport sector has benefited from significant investments in highway infrastructure, leading to improved connectivity and reduced travel times.
- Similarly, the aviation sector has expanded rapidly, with new airports, increased flight frequencies, and competitive pricing making air travel more accessible to the masses.
- As a result, both passengers and freight shippers are increasingly opting for road and air transport over rail, which they perceive as more reliable, faster, and often more cost-effective.
- The shift to road and air transport is also a reflection of broader economic and demographic changes.
- As incomes rise and urbanisation accelerates, there is greater demand for faster and more convenient travel options.
- Indian Railways has struggled to keep pace with these changing preferences, resulting in a significant loss of market share.

■ Failure to Meet Modernisation and Efficiency Targets

- Indian Railways' inability to modernise and improve efficiency has further exacerbated its declining
- Despite numerous announcements and plans to increase train speeds and improve safety, tangible progress has been minimal.
- The average speed of mail and express trains has remained stagnant at 50-51 kmph, far below the ambitious target of 75 kmph set under various initiatives like Mission Raftar.
- This failure to increase speeds not only affects passenger satisfaction but also impacts the efficiency of freight operations.

■ Major Punctuality Issues

- The railways have struggled with chronic punctuality issues, with trains frequently running late.
- This lack of reliability is a major deterrent for both passengers and freight shippers who require timely delivery of goods.

Railways backs out of human error claim: toll climbs to 10



- ◆ The Comptroller and Auditor General (CAG) of India's report on speed and punctuality highlights these deficiencies, noting that there has been no significant improvement in train speeds or punctuality over the past several years.
- Highlights of CAG Report on Indian Railways and Other Administrative Failures

■ Inconsistent Policies and Lack of Strategic Direction

- Over the past two decades, the Railway Board, the highest administrative body of Indian Railways, has been characterised by abrupt changes in policies and a lack of coherent strategic direction.
- ◆ This inconsistency has led to a fragmented approach to modernisation and improvement efforts.
- ◆ Frequent leadership changes and shifting priorities have prevented the implementation of long-term plans that are essential for sustainable development.
- ◆ For instance, initiatives to increase train speeds and enhance safety have been announced multiple times but have failed to materialise effectively.
- ♦ The Mission Raftar project, aimed at increasing the average speed of trains to 75 kmph, has been reintroduced in various forms since 2005.

■ Inefficiencies in Operational Management

- Operational inefficiencies further exacerbate the administrative failures within Indian Railways.
- ◆ The punctuality of trains remains a major issue, with delays being a common occurrence.
- ◆ This lack of reliability undermines public confidence and reduces the attractiveness of rail travel compared to road and air alternatives.
- ◆ The inability to adhere to schedules disrupts both passenger and freight services, leading to economic losses and inconvenience.
- Despite acquiring advanced technology to build faster coaches and locomotives, Indian Railways has failed to operationalise these capabilities effectively.
- The continued reliance on outdated infrastructure and practices hampers efforts to improve overall efficiency and service quality.

■ Persistent Safety Issues

- The high incidence of accidents, including derailments and collisions, highlights serious flaws in safety management and infrastructure maintenance.
- ◆ The recent collision near Siliguri and the tragic multiple train collision in Balasore are stark reminders of the ongoing safety issues.
- ◆ The CAG's report on accidents reveals that while there has been some reduction in the number of accidents due to the manning of unmanned railroad crossings, the rate of derailments and collisions remains high.
- ◆ These accidents are often caused by asset failures such as signal malfunctions and rail fractures.
- ◆ The Balasore collision, for instance, was attributed to a signal failure, illustrating the severe consequences of inadequate maintenance and monitoring.
- Required Reforms to Revitalise Indian Railways

■ Prioritising Safety

- Improving safety should be the foremost priority and this involves significant investment in track upgrades, modern signalling systems, and robust maintenance protocols.
- ♦ Regular safety audits, adherence to international safety standards, and continuous training for railway staff are essential components of a comprehensive safety strategy.

■ Enhancing Efficiency and Reliability

- Increasing the average speed of trains, improving punctuality, and reducing delays are critical for enhancing the efficiency and reliability of the rail network.
- This can be achieved through targeted investments in infrastructure upgrades, such as replacing outdated tracks and enhancing station facilities.
- ♦ Implementing advanced traffic management systems can also optimise train operations and reduce bottlenecks.

■ Innovation and Modernisation

- ♦ While high-profile projects like bullet trains and semi-high-speed services have their place, **innovation** should extend to the entire network.
- ♦ Introducing more efficient locomotives, adopting green technologies, and leveraging data analytics for predictive maintenance can drive modernisation across the rail system.
- ◆ These efforts should be integrated with a broader strategy to improve the core network's performance.

Conclusion

- The current state of Indian Railways reflects the consequences of misplaced priorities and the urgent need for comprehensive reforms.
- By focusing on safety, efficiency, and modernisation, Indian Railways can reverse its decline and reclaim its position as a vital component of India's transportation infrastructure.
- This requires a strategic shift away from high-profile, costly projects towards targeted investments in core infrastructure and operations.

2. The high cost of a global economic decoupling GS 3 (Economy)

Why in News: U.S. President Joe Biden's announcement in May to impose new tariffs on Chinese imports has reignited fears of economic decoupling between major global economies, influencing policymakers in Europe and highlighting geopolitical tensions.
 The high cost of a global economic decoupling

Political Over Economic Considerations

- National Security Focus: The West's trade risk calculations with China are increasingly driven by national security concerns.
- Biden's Tariff Strategy: The new tariffs, especially on Chinese electric vehicles, are politically motivated to support domestic industries and unions.
- Medical Device Tariffs: Increased tariffs on Chinese medical devices aim to reduce dependence on China but could raise healthcare costs in the U.S.

Global Economic Impact

Protectionism Consequences: The cycle of tit-for-tat tariffs exacerbates global protectionism, harming international trade.

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- Green Transition Delays: Import restrictions on Chinese clean energy products could hinder global renewable energy goals.
- Multinational Challenges: Western companies dependent on China's consumer market face potential earnings declines due to China's economic slowdown.

Regional Effects

- Resource-Rich Countries: Countries like Australia and Brazil may suffer from reduced Chinese demand, impacting their exports and commodity prices.
- **EU De-Risking**: The EU's efforts to de-risk trade with China in raw minerals could backfire, giving China more control over supply chains.
- Southeast Asia and India: Southeast Asia and India may struggle to replace China as a manufacturing hub due to high dependency on Chinese technology and investment.

3. Forest Fire and Management

GS 3 (Environment)

• Why in News: Himachal Pradesh (H.P.) is currently grappling with a severe spate of forest fires, with 1,684 incidents reported, affecting 17,471 hectares of forest land. These fires pose significant threats to wildlife and contribute to environmental degradation in the region.

Causes of Forest Fires

- Forest fires in Himachal Pradesh primarily occur during the pre-monsoon summer, exacerbated by moisture stress after snowmelt depletion.
- Human activities such as unattended campfires and discarded cigarettes also contribute to the outbreak of fires.
- Faulty forestry practices and a utilitarian approach to forest management further exacerbate the problem.

Impact on Environment and Climate

- Forest fires in the Himalayas
 - release pollutants like black carbon
 - Accelerates glacier melt

- negatively impacts regional climate patterns
- Historical transformations in Himalayan forests, driven by commercial interests, have reduced ecological resilience, making them more susceptible to

Historical Transformation of Himalayan Forests

- Over the past two centuries, Himalayan forests have undergone significant transformations due to colonial-era forestry policies focused on commercial exploitation.
- The shift from Banj oak to commercially valuable Chir pine has altered forest ecosystems, affecting water retention and local livelihoods dependent on forest resources



Challenges and Recommendations

Challenges:

- Lack of community participation in forest management despite constitutional provisions.
- Curtailment of traditional forest rights, hindering local communities' ability to respond effectively to forest
- Easy forest diversion for large-scale development projects like hydroelectricity and road infrastructure.

Recommendations:

- Democratize forest management to involve local communities in decision-making processes.
- Restore traditional forest rights to enable effective forest protection and management.
- Implement mixed forestry approaches, reducing monoculture of vulnerable Chir pine.
- Integrate scientific knowledge with traditional practices for sustainable forest management.
- Establish local environmental services and infrastructure like check dams to revive water springs and mitigate fire risks.

4. Scientists from India, China, U.K. Develop Catalyst to Produce Cheaper Biodiesel GS 3 (Science and Tech)

Why in the News: A team of scientists from Assam and Odisha in India, China, and the U.K. has developed a waterrepellent catalyst that can cut the cost of producing Scientists from India, China, U.K. develop biodiesel substantially from the current levels.

About Biofuel:

- Biofuel is a fuel that is produced over a short time span from biomass, rather than by the very slow natural processes involved in the formation of fossil fuels, such as oil.
- Since biomass can be used as a fuel directly (e.g., wood logs), some people use the words biomass and biofuel interchangeably.

catalyst to produce cheaper biodiesel



- However, the word biofuel is usually reserved for liquid or gaseous fuels, used for transportation.
- Most of biofuel consumption occurs as a blend with refined petroleum products such as gasoline, diesel fuel, heating oil, and kerosene-type jet fuel.
 - However, some biofuels do not require blending with their petroleum counterparts and are referred to as drop-in biofuels.
- The most common biofuels now are:
 - **Bioalcohols** such as ethanol, propanol, and butanol (a substitute for petrol/gasoline);
 - **Biodiesel** (a substitute for diesel);
 - Bio-oils (substitutes for kerosene).

Generations of Biofuel:

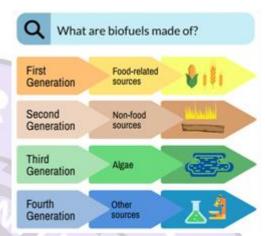
Biofuels are also divided into four categories depending on their origin and production technologies.

■ First Generation:

- ◆ 1G biofuels are produced from consumable food items containing starch (rice and wheat) and sugar (beets and sugarcane) for bioalcohols, or vegetable oils for biodiesel.
- However, the yields of 1G biofuels are low and can have negative impacts on food security.

Second Generation:

◆ 2G biofuels are mainly obtained from non-food feedstocks such as forest/industry/agricultural wastes and waste or used vegetable oils.



■ Third Generation:

- ♦ **3G** biofuels, known as 'algae fuel', are **derived from algae** in the form of both, biodiesel and bioalcohols.
- ◆ Although the yield of 3G biofuels is approximately 10 times higher than 2G biofuels, producing adequate algal biomass and scaling up extraction techniques are as yet unresolved challenges.

■ Fourth Generation:

- ◆ Like the third generation, 4G biofuels are made using non-arable land.
- ♦ However, unlike the third, they do not need the destruction of biomass.
- ◆ This class of biofuels includes electro fuels and photo-biological solar fuels.

• India's Biofuel Policy:

- In 2021-22, the Central government amended the Biofuel Policy (2018) to set a target of country-wide blending rates of 20% ethanol and 5% biodiesel by 2025.
- According to the Roadmap for ethanol blending in India 2020-2025 report from NITI Aayog, India will need to increase ethanol production capacity from the expected 3.3 billion liters (in 2020–2021) to at least 10.2 billion liters (5.5 billion liters from sugarcane and 4.7 billion liters from grains) by 2025.
- Supported by these policies, ethanol for blending in gasoline production and demand nearly tripled between 2018 and 2023 and now stands at near 12% (7% on an energy basis).
- Sugar cane provides most ethanol production with the remainder from food grains such as maize and surplus rice stocks determined by the Food Corporation of India.

Catalyst to Produce Cheaper Biofuel:

- A collaborative team of scientists from India, China, and the U.K. has developed a water-repellent catalyst that significantly reduces the cost of producing biodiesel.
- This innovative "spherical superhydrophobic activated carbon catalyst" is designed to withstand water byproducts generated during biodiesel production, mimicking the natural water-repelling properties of surfaces like lotus leaves.
- Currently, biodiesel production costs about ₹100 per liter in India, but the new catalyst could reduce this significantly.

5. Pro-tem Speaker GS 2 (Legislature)

Why in News: Recently, K Suresh from the Congress party has been appointed as the pro-tem Speaker in the Lok Sabha. This appointment holds significance as it precedes the formal election of the Speaker of the House.

What is a Speaker pro-tem?

- **Temporary Position:** The Speaker pro-tem is appointed temporarily.
- Appointment: Appointed by the President of India, the pro-tem Speaker is traditionally the most senior member of the House.
- Duties: The pro-tem Speaker has several crucial responsibilities, including:
 - Presiding over the first sitting of the Lok Sabha.
 - Conducting the floor test to ascertain the government's
 - Overseeing the vote to elect the Speaker and Deputy Speaker.
 - Administering the oath of office to newly elected MPs: It is the pro-tem Speaker's primary duty.
 - Under Article 99 of the Constitution, "Every Member of the House shall, before taking his seat, make and subscribe before the President or some person appointed in that behalf by him, an oath or affirmation according to the form set out for the purpose in the Third Schedule of the Constitution."

PRO TEM SPEAKER

A senior Lok Sabha MP who is temporarily appointed Speaker and administers oath to new Members

EXPRESS NEWS SERVICE

THE 18TH LOK SABHA will hold its first session between June 24 and July 3, during which the new Speaker will be elected. Prime Minister Narendra Modi will move the motion for the election of the Speaker in the Lok Sabha on June 26. Congress leader K Suresh, an eight-term MP is expected to be a positioned more term. MP, is expected to be appointed pro tem

Who is a pro tem Speaker?
As the Presiding Officer of Lok Sabha, the Speaker has to fulfil certain duties and is elected by a simple majority vote in the Lower House. Until the Speaker is

in the Lower House. Until the Speaker is elected, the pro tem Speaker is appointed to administer some important duties. Pro tem' means for the time being or 'temporarip'.

The Constitution does not mention the post, but the official 'Handbook on the Working of Ministry of Parliamentary Affairs' mentions the appointment and swearine in of Speaker nutern. swearing in of Speaker pro tem.

How is the pro tem Speaker chosen?

The handbook states that when the Speaker's post is vacant before a new Lok Sabha meets, "the duties of the Speaker Sabha m are to be performed by a Member of the House appointed for this purpose by the President as Speaker pro tem". Normally, the seniormost MP is ap-

pointed as the Speaker pro tem. Three other MPs, the next in terms of seniority, are appointed to assist the Speaker pro tem.

are appointed to assist the Speaker protern.

As soon as the new government is formed, the Legislative I Section of the Legislative Department of the government prepares a list of the seniormost Lok Sabba members. It is then submitted to the Minister for Parliamentary Affairs or the Prime Minister for identifying an MP as Speaker protern and another three members for oath-taking. members for oath-taking.

How are oaths administered? After the Prime Minister's approval, the Ministry gets the consent of these MPs. The Minister then submits a note to the President, seeking approval for their appointments. The date and time for the

appointments. The date and time for the ceremony are also decided.

Once the President approves, the Ministry informs the appointed members. Finally, the President administers the oath to the Speaker pro tem at Rashtrapati Bhavan. The other three members appointed by the President are administered the oath by the Speaker pro term in the 10 k Sabha. tem in the Lok Sabha.

The Speaker pro tem then administers the oath or affirmation to the newly elected MPs with the help of the other three members. Since the session of the Lok Sabha starts at 11 am, the time gener-ally fixed for swearing in of the Speaker protem is on the morning of the same day at 9.30 am, subject to the convenience of the President.

- Duration: The pro-tem Speaker's tenure concludes once the new Speaker of the House is elected.
- The Constitution does not mention the post.

The Role of the Speaker

- The Speaker of the Lok Sabha holds a pivotal position in the functioning of the House, overseeing its proceedings and upholding parliamentary rules and decorum.
- The Speaker of the House is decided by a simple majority.
- **Election:** Elected by the members of the Lok Sabha, the Speaker serves as the custodian of the House.
- Article 94 of the Indian Constitution states: "Whenever the House of the People is dissolved, the Speaker shall not vacate his office until immediately before the first meeting of the House of the People after the dissolution."
- Responsibilities:
- Maintaining Order: Ensuring discipline during debates and discussions, with the authority to suspend proceedings if needed.
- **Decision Making**: Making rulings on parliamentary procedures and disputes.
- Critical Powers: Holds significant powers, including adjudicating on issues like disqualification of MPs and deciding on no-confidence motions.
- Impact on Government Stability: The Speaker's decisions are crucial in matters of proving majority and interpreting laws like the anti-defection law.

6. Great Nicobar Project **GS 2 (Governance)**

- Why in News: The Indian government has proposed a significant infrastructure upgrade on Great Nicobar Island, encompassing an International Container Transshipment Terminal (ICTT), a greenfield international airport, a township, and a power plant. This initiative is part of a broader plan for the holistic development of the island, aimed at leveraging its strategic location in the Bay of Bengal.
- About the project
 - Project title: 'Holistic Development of Great Nicobar Island at Andaman and Nicobar Islands'
 - Cost: Rs 72,000 crore

- Implemented by: Andaman and Nicobar Islands Integrated Development Corporation (ANIIDCO).
- The project has four components
 - an International Transhipment Port (ITP)
 - Greenfield International Airport
 - a power plant
 - a new township that could constitute a Special Economic Zone
- These four interlinked projects form the core of the new city and the holistic master plan.

Significance of the project:

- The ICTT is expected to enhance India's participation in the global maritime economy and bolster regional connectivity.
- Additionally, the region's military upgrade aims to strengthen India's defense posture in response to geopolitical developments, particularly concerning Chinese naval activities in the Indo-Pacific.

Environmental Concerns and Opposition

- The proposed project has faced opposition from conservationists, wildlife experts, and local tribal councils, citing concerns over its environmental impact.
- Critics argue that the development could lead to deforestation, threaten marine ecosystems, and endanger vulnerable species like the Nicobar Megapode and leatherback turtles.
- There are also apprehensions about the potential disruption to the indigenous Shompen tribe's habitat and traditional way of life.

Steps were taken to mitigate the Losses:

Ph: 9100791003

- **Building Coral population**: Proposed mitigation measures to compensate for these damages include coral translocation and reef restoration in **Galathea Bay.**
- Compensatory Afforestation: Authorities plan to balance the loss of 12-20 hectares of mangroves here by 'redensifying' existing mangrove patches and planting mangroves in non-forest areas.
- **Declaring Protected areas:** Mitigation measures also include intent to declare new protected areas, as well as the drawing up of monitoring and action plans to study threatened wildlife



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Strategic imperative and environment concern in Great Nicobar project

MCQ Current Affairs 19th June, 2024

1. Ghodbunder Fort, recently seen in the news, lies in which one of the following states?

- a) West Bengal
- b) Rajasthan
- c) Odisha
- d) Maharashtra

2. Which among the following best describes "Ophichthus Suryai", recently seen in the news?

- a) An invasive alien species of flowering plant
- b) A unique type of coral found in the Bay of Bengal
- c) A newly discovered species of snake eel
- d) A rare species of bird found in the Western Ghats

3. Consider the following statements with reference to the Nalanda University:

A. It was founded by King Harshavardhan in the early 5th century AD.

B. It was a monastic establishment and used to teach all the major philosophies of Buddhism.

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 Sahitya Akademi Yuva Puraskar:

A. It is presented annually to best literary creations by the young writers of age 35 or below.

B. It is the only Akademi award open for nominations by publishers and self-nominations by writers.

Which of the statements given above is/are correct?

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

5. With reference to Lok Adalat, consider the following statements:

A. It has been given statutory status under the Legal Services Authorities Act, 1987.

B. It can make awards/decisions which are deemed to be a decree of a civil court and are final and binding on all the parties concerned.

C. It possesses jurisdiction over a diverse array of cases, including civil disputes, criminal cases (compoundable offences) and family matters.

How many of the statements given above are correct?

- a) One only
- b) Two only
- c) All three
- d) None

Answers Current Affairs 19th June, 2024

