



Daily PIB Summary

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1. PSA OFFICE–FICCI MoU TO BOOST INDIA'S R&D ECOSYSTEM



- I. The MoU focuses on:
 - A. Strengthening **industry-academia collaboration**
 - B. Promoting **innovation-driven growth**
- II. Key areas:
 - A. Research commercialization
 - B. Technology transfer
 - C. Capacity building
- III. Encourages:
 - A. Private sector participation in R&D
- IV. Supports:
 - A. Development of emerging technologies
- V. Overall, aims to enhance **India's innovation capacity and global competitiveness.**

BACKGROUND / CONTEXT

Principal Scientific Adviser (PSA)

- I. Office of the Principal Scientific Adviser to the Government of India:
 - A. Advises government on science and technology policies
- II. Promotes:
 - A. Innovation and research

FICCI

- I. Federation of Indian Chambers of Commerce and Industry:
 - A. Leading industry body
- II. Represents:
 - A. Business and industry interests

Importance of R&D

- I. Drives:
 - A. Economic growth
 - B. Technological advancement
- II. Enhances:
 - A. Global competitiveness

Challenges in India

- Low private investment in R&D
- Gap between research and commercialization

KEY HIGHLIGHTS

- **Parties:** PSA Office & FICCI
- **Focus:** R&D ecosystem
- **Approach:** Industry-academia collaboration
- **Objective:** Innovation and commercialization
- **Impact:** Stronger research ecosystem

- **Challenge:** Funding and coordination
- **Way Forward:** Increase private sector participation

PRELIMS BOOSTER BOX

- **PSA:** Scientific advisory body
- **FICCI:** Industry association
- **Focus:** R&D
- **Concept:** Innovation ecosystem
- **Challenge:** Low R&D investment
- **Goal:** Global competitiveness
- **Approach:** Collaboration

PadhAI-GENERATED UPSC MCQ

Consider the following statements:

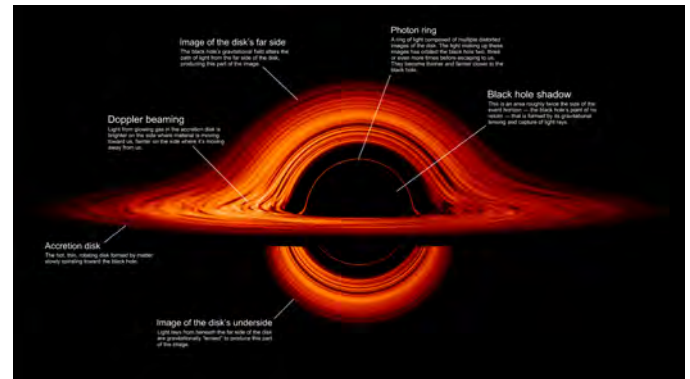
1. The Principal Scientific Adviser advises the government on science and technology.
2. FICCI is an industry body representing businesses.
3. R&D has no role in economic growth.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 1 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

Answer: (a)

2.SCIENTISTS STUDY DIFFERENT APPEARANCES OF EXTRAGALACTIC JETS



- Extragalactic jets:**
 - A. Powerful streams of matter and energy ejected from regions near **black holes**
- Observations show:
 - A. Some jets are **bright and narrow**
 - B. Others are **diffuse and irregular**
- Key factors influencing differences:
 - A. Surrounding environment (density of intergalactic medium)
 - B. Magnetic fields
 - C. Speed and energy of particles
- Research helps:
 - A. Understand galaxy evolution
 - B. Study extreme physics conditions
- Overall, it improves knowledge of **cosmic phenomena and space physics.**

BACKGROUND / CONTEXT

Black Holes

- Regions in space with:
 - A. Extremely strong gravity
- Not even light can escape

Extragalactic Jets

- I. Originate from:
 - A. Active galactic nuclei (AGN)
- II. Travel:
 - A. Thousands of light-years

Scientific Importance

- I. Helps in:
 - A. Understanding high-energy physics
 - B. Studying structure of galaxies

Key Concepts

- Plasma physics
- Relativistic speeds
- Magnetic field interactions

KEY HIGHLIGHTS

- **Phenomenon:** Extragalactic jets.
- **Source:** Black holes.
- **Variation:** Shape and brightness differ.
- **Factors:** Environment, magnetic fields.
- **Field:** Astrophysics.
- **Impact:** Better understanding of the universe.
- **Way Forward:** Advanced observations and simulations.

PRELIMS BOOSTER BOX

- **Object:** Black hole
- **Phenomenon:** Jets
- **Origin:** AGN
- **Concept:** Relativistic particles
- **Field:** Astrophysics
- **Scale:** Light-years
- **Goal:** Understand universe

PadhAI-GENERATED UPSC MCQ

Consider the following statements:

1. Extragalactic jets originate near black holes.
2. Their appearance can vary due to environmental factors.
3. Black holes emit light directly.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 1 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

Answer: (a)

3.INDIA TO HOST INTERNATIONAL BIG CAT ALLIANCE (IBCA) SUMMIT 2026



- I. The summit will bring together:
 - A. Member countries
 - B. Conservation experts
 - C. International organizations
- II. Objective:

- A. Strengthen cooperation for **protection of big cats**
- III. Species covered:
 - A. Tiger
 - B. Lion
 - C. Leopard
 - D. Snow leopard
 - E. Cheetah
 - F. Jaguar
 - G. Puma
- IV. Key themes:
 - A. Habitat conservation
 - B. Anti-poaching efforts
 - C. Wildlife research and monitoring
- V. India's role:
 - A. Leader in wildlife conservation initiatives
- VI. Overall, it enhances **global collaboration for biodiversity protection**.

BACKGROUND / CONTEXT

International Big Cat Alliance (IBCA)

- I. International Big Cat Alliance:
 - A. Launched by India
- II. Focus:
 - A. Conservation of seven big cat species

India's Conservation Efforts

- I. Notable programmes:
 - A. Project Tiger
 - B. Project Lion
- II. India hosts:
 - A. Largest population of wild tigers

Importance

- I. Big cats are:
 - A. Apex predators
- II. Maintain:
 - A. Ecological balance

Global Linkages

- I. Aligns with:
 - A. Biodiversity conservation goals
 - B. Sustainable Development Goals (SDGs)

KEY HIGHLIGHTS

- **Event:** IBCA Summit 2026.
- **Location:** New Delhi.
- **Focus:** Big cat conservation.
- **Organizer:** India.
- **Species:** 7 big cats.
- **Impact:** Global cooperation.
- **Way Forward:** Strengthen conservation strategies.

PRELIMS BOOSTER BOX

- **Alliance:** IBCA
- **Species:** 7 big cats
- **Location:** New Delhi
- **Concept:** Biodiversity
- **Programme:** Project Tiger
- **Role:** Apex predators
- **Goal:** Conservation

PadhAI-GENERATED UPSC MCQ

Consider the following statements:

1. IBCA focuses on conservation of big cats.
2. India hosts the largest population of wild tigers.
3. Big cats are herbivores.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 1 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

Answer: (a)

4. SWASTH BHARAT PORTAL UNVEILED: BOOST TO DIGITAL HEALTH ECOSYSTEM



- I. The portal provides a **unified digital platform** for:
 - A. Health data management
 - B. Service delivery integration
- II. Key features:
 - A. Interoperability between healthcare systems
 - B. Centralized access to health records
 - C. Improved coordination among stakeholders
- III. Benefits:

- A. Better patient care and continuity
 - B. Enhanced efficiency of healthcare services
- IV. Supports:
 - A. Data-driven decision-making
 - V. Overall, it strengthens India's **digital health infrastructure**.

BACKGROUND / CONTEXT

Digital Health in India

- I. Increasing use of:
 - A. Technology in healthcare delivery
- II. Focus on:
 - A. Accessibility and efficiency

Policy Linkage

- I. Ayushman Bharat Digital Mission (ABDM):
 - A. Aims to create a **digital health ecosystem**
- II. Swasth Bharat Portal complements:
 - A. ABDM initiatives

Challenges Addressed

- Fragmented health data systems
- Lack of interoperability
- Inefficiencies in service delivery

KEY HIGHLIGHTS

- **Platform:** Swasth Bharat Portal.
- **Focus:** Digital health integration.
- **Feature:** Interoperability.
- **Benefit:** Better patient care.
- **Policy:** ABDM.
- **Impact:** Efficient healthcare system.
- **Way Forward:** Scale adoption nationwide.

PRELIMS BOOSTER BOX

- **Portal:** Swasth Bharat
- **Mission:** ABDM
- **Concept:** Digital health
- **Feature:** Interoperability
- **Goal:** Unified system
- **Sector:** Healthcare
- **Impact:** Efficiency

PadhAI-GENERATED UPSC MCQ

Consider the following statements:

1. Swasth Bharat Portal aims to integrate health systems.
2. ABDM focuses on the digital health ecosystem.
3. Fragmentation improves healthcare efficiency.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
(b) 1 only
(c) 2 and 3 only
(d) 1, 2 and 3

Answer: (a)

5. CABINET APPROVES EMERGENCY CREDIT LINE GUARANTEE SCHEME (ECLGS) 5.0



- I. **ECLGS 5.0** builds upon earlier versions of the scheme.
- II. Key features:
 - A. Collateral-free loans to businesses
 - B. Government-backed credit guarantees
- III. Target beneficiaries:
 - A. Micro, Small and Medium Enterprises (MSMEs)
 - B. Other stressed sectors
- IV. Objectives:
 - A. Ensure liquidity support
 - B. Promote economic recovery
- V. Benefits:
 - A. Prevent business closures
 - B. Safeguard jobs
- VI. Overall, strengthens **credit flow and economic resilience**.

BACKGROUND / CONTEXT

ECLGS Scheme

- I. Launched during:
 - A. COVID-19 pandemic
- II. Implemented by:
 - A. Ministry of Finance

How It Works

- I. Government provides:
 - A. Guarantee to banks for loans
- II. Encourages:
 - A. Lending without collateral

Importance

- I. MSMEs are:
 - A. Backbone of India's economy
- II. Provide:
 - A. Employment and industrial growth

Policy Linkages

- Atmanirbhar Bharat Package
- MSME support initiatives

KEY HIGHLIGHTS

- **Scheme:** ECLGS 5.0.
- **Ministry:** Finance.
- **Target:** MSMEs.
- **Feature:** Credit guarantee.
- **Benefit:** Liquidity support.
- **Impact:** Economic recovery.
- **Way Forward:** Strengthen MSME financing.

PRELIMS BOOSTER BOX

- **Scheme:** ECLGS
- **Type:** Credit guarantee
- **Target:** MSMEs
- **Feature:** Collateral-free loans
- **Ministry:** Finance
- **Goal:** Liquidity
- **Impact:** Jobs

PadhAI-GENERATED UPSC MCQ

Consider the following statements:

1. ECLGS provides collateral-free loans backed by government guarantees.
2. It mainly targets MSMEs.
3. It discourages lending by banks.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 1 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

Answer: (a)