



Daily PIB Summary

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1. RIVER BASIN MANAGEMENT SCHEME: STRENGTHENING INTEGRATED WATER GOVERNANCE IN INDIA



- The scheme promotes **basin-level planning and management of water resources**.
- Encourages **inter-state coordination** for equitable and efficient water sharing.
- Focus on **data-driven decision-making and hydrological assessments**.
- Addresses challenges like **water scarcity, floods, and pollution**.
- Supports sustainable development through **integrated water governance**.
- Enhances institutional mechanisms for **river basin organizations**.
- Overall, it strengthens India's approach towards **holistic and sustainable water management**.

BACKGROUND / CONTEXT

River Basin Approach

- I. A river basin includes:
 - A. Entire catchment area drained by a river
- II. Management focuses on:
 - A. Integrated use of water, land, and related resources

Need for River Basin Management

- I. Issues:
 - A. Inter-state river disputes
 - B. Floods and droughts
 - C. Pollution and over-extraction

Institutional Framework

- I. River Basin Organizations (RBOs):
 - A. Facilitate coordination among states
- II. Central agencies support:
 - A. Data, planning, and policy

Policy Linkages

- National Water Policy
- Integrated Water Resources Management (IWRM) principles

KEY HIGHLIGHTS

- **Integrated Approach:** Basin-level planning and management.
- **Inter-State Coordination:** Promotes cooperative federalism.
- **Data-Driven:** Use of hydrological data and technology.

- **Sustainability:** Addresses water scarcity and pollution.
- **Institutional Strengthening:** Role of RBOs.
- **Challenges:** Interstate conflicts and governance gaps.
- **Way Forward:** Strengthen legal framework and stakeholder participation.

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

Answer: (a)

PRELIMS BOOSTER BOX

- **River Basin:** Entire drainage area of a river
- **RBMS:** River Basin Management Scheme
- **Approach:** Integrated Water Resources Management (IWRM)
- **Issue:** Inter-state water disputes
- **Policy:** National Water Policy
- **Institution:** River Basin Organizations
- **Goal:** Sustainable water use

PadhAI-GENERATED UPSC MCQ

Consider the following statements:

1. River basin management focuses on integrated use of water and land resources.
2. River Basin Organizations facilitate coordination among states.
3. River basin approach ignores hydrological boundaries.

Which of the statements given above is/are correct?

2.SCIENTISTS EXPLORE BLACK HOLES IN DWARF GALAXIES: NEW INSIGHTS INTO COSMIC EVOLUTION



- New studies suggest that even **small dwarf galaxies may host black holes.**
- This challenges the traditional view that **only large galaxies contain massive black holes.**
- Findings help understand the **origin of supermassive black holes.**
- Offers insights into **early universe structure formation and galaxy evolution.**
- Supports theories of **hierarchical growth of galaxies through mergers.**
- Enhances understanding of **cosmic evolution and dark matter distribution.**
- Overall, expands scientific knowledge of **astrophysics and universe formation processes.**

BACKGROUND / CONTEXT

Dwarf Galaxies

- I. Small galaxies with:
 - A. Fewer stars and lower mass
- II. Examples:
 - A. Satellite galaxies around larger galaxies

Black Holes

- I. Regions with:
 - A. Extremely strong gravitational pull
- II. Types:
 - A. Stellar-mass
 - B. Supermassive black holes

Scientific Significance

- I. Presence in dwarf galaxies suggests:
 - A. Early formation of black holes
- II. Helps explain:
 - A. Growth of large galaxies over time

Cosmic Evolution

- I. Galaxies evolve through:
 - A. Mergers and accretion
- II. Black holes play a key role in:
 - A. Galaxy dynamics and energy processes

KEY HIGHLIGHTS

- **New Discovery:** Black holes may exist in dwarf galaxies.
- **Scientific Shift:** Challenges earlier assumptions.
- **Cosmic Insight:** Helps understand galaxy formation.
- **Early Universe:** Indicates early black hole formation.
- **Astrophysical Impact:** Links to dark matter and evolution.
- **Challenges:** Detection difficulty due to small size.
- **Way Forward:** Advanced telescopes and further research.

PRELIMS BOOSTER BOX

- **Dwarf Galaxy:** Small, low-mass galaxy
- **Black Hole:** Region with strong gravity
- **Types:** Stellar and supermassive
- **Concept:** Galaxy evolution
- **Theory:** Hierarchical merging
- **Tool:** Advanced telescopes
- **Significance:** Early universe study

PadhAI-GENERATED UPSC MCQ

Consider the following statements:

1. Dwarf galaxies are small galaxies with fewer stars.
2. Black holes can exist only in large galaxies.
3. The presence of black holes in dwarf galaxies can help explain galaxy evolution.

Which of the statements given above is/are correct?

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

Answer: (a)

3.KANKARIA COACHING DEPOT ACHIEVES WATER NEUTRALITY: NATURE-BASED SOLUTION IN RAILWAYS



- The depot has achieved **water neutrality**, meaning it recycles and reuses as much water as it consumes.
- Utilizes **nature-based solutions (phytoremediation)** for wastewater treatment.
- Reduces dependency on **freshwater resources** and minimizes wastewater discharge.
- Demonstrates **eco-friendly and cost-effective water management practices**.

- Supports India's goals of **sustainable infrastructure and resource efficiency**.
- Can be replicated across other railway depots and urban facilities.
- Overall, showcases innovation in **environmental governance and green infrastructure**.

BACKGROUND / CONTEXT

Water Neutrality

- I. Concept where:
 - A. Water consumption = Water recycled/replenished
- II. Promotes:
 - A. Sustainable water use

Phytoremediation

- I. A natural process using:
 - A. Plants to absorb, filter, and break down pollutants
- II. Benefits:
 - A. Low cost
 - B. Environment-friendly
 - C. Minimal energy requirement

Indian Railways Sustainability Efforts

- I. Indian Railways focusing on:
 - A. Water conservation
 - B. Renewable energy
 - C. Waste management

Urban Water Challenges

- I. Issues:
 - A. Water scarcity
 - B. Pollution

C. Over-extraction of groundwater

KEY HIGHLIGHTS

- **First Achievement:** India's first water-neutral coaching depot.
- **Nature-Based Solution:** Use of plants for water purification.
- **Sustainability:** Reduces freshwater usage and pollution.
- **Replicability:** Model for other depots and cities.
- **Environmental Impact:** Supports conservation and eco-friendly practices.
- **Challenges:** Maintenance and scalability.
- **Way Forward:** Expand such models across infrastructure projects.

PRELIMS BOOSTER BOX

- **Water Neutrality:** Equal consumption and recycling
- **Technique:** Phytoremediation
- **Location:** Ahmedabad, Gujarat
- **Sector:** Indian Railways
- **Benefit:** Sustainable water management
- **Issue:** Urban water scarcity
- **Approach:** Nature-based solutions

PadhAI-GENERATED UPSC MCQ

Consider the following statements:

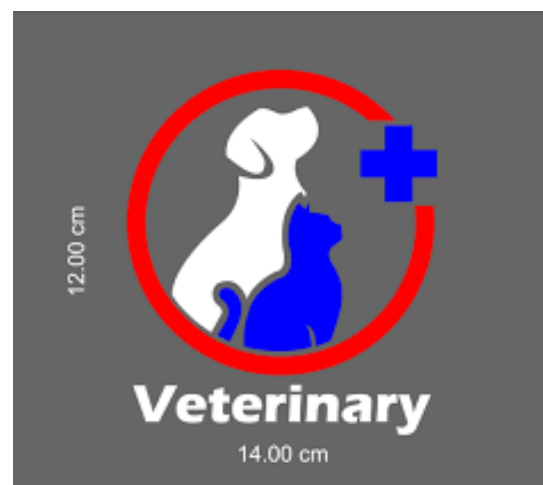
1. Water neutrality implies that water consumption is balanced by recycling or replenishment.
2. Phytoremediation involves using plants to remove pollutants from water or soil.
3. Phytoremediation requires high energy and complex machinery.

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.EMPOWERED COMMITTEE REVIEWS ANIMAL HEALTH SYSTEMS: PUSH FOR STRONGER VETERINARY INFRASTRUCTURE



- The committee assessed progress in **veterinary infrastructure, disease surveillance, and vaccination programmes**.
- Emphasized improving **early detection and control of animal diseases**.
- Highlighted the importance of **One Health approach** linking animal, human, and environmental health.
- Focus on strengthening **laboratories, diagnostic facilities, and field services**.
- Aims to enhance **livestock productivity and farmers' income**.
- Supports prevention of **zoonotic diseases affecting humans**.
- Overall, it reflects integrated governance for **animal health, food security, and public health resilience**.

BACKGROUND / CONTEXT

Animal Health Systems in India

- I. Includes:
 - A. Veterinary services
 - B. Disease surveillance
 - C. Vaccination programmes

One Health Approach

- I. Integrates:
 - A. Human health
 - B. Animal health
 - C. Environmental health
- II. Important for:
 - A. Controlling zoonotic diseases

Key Diseases

- I. Examples:

- A. Foot and Mouth Disease (FMD)
- B. Brucellosis
- C. Avian Influenza

Institutional Framework

- I. Coordinated by:
 - A. Ministry of Fisheries, Animal Husbandry and Dairying
- II. Supported by:
 - A. Veterinary institutions and labs

KEY HIGHLIGHTS

- **System Review:** Assessment of animal health infrastructure.
- **Disease Control:** Focus on surveillance and vaccination.
- **One Health:** Integrated approach for health security.
- **Livestock Impact:** Improves productivity and farmer income.
- **Public Health:** Reduces zoonotic disease risks.
- **Challenges:** Infrastructure gaps and disease spread.
- **Way Forward:** Strengthen labs, surveillance, and coordination.

PRELIMS BOOSTER BOX

- **One Health:** Human-animal-environment linkage
- **FMD:** Foot and Mouth Disease
- **Brucellosis:** Bacterial zoonotic disease
- **Avian Influenza:** Viral disease in birds
- **Ministry:** Fisheries, Animal Husbandry and Dairying
- **Focus:** Disease surveillance
- **Goal:** Public health safety

PadhAI-GENERATED UPSC MCQ

Consider the following statements:

1. One Health approach integrates human, animal, and environmental health.
2. Foot and Mouth Disease is a zoonotic disease affecting livestock.
3. Animal health systems have no impact on public health.

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.INDIA AI GLOBAL ACCELERATION PROGRAMME: 10 STARTUPS SELECTED FOR COHORT II



सत्यमेव जयते

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
**ELECTRONICS AND
INFORMATION TECHNOLOGY**

- The programme supports startups in **Artificial Intelligence (AI)** to expand globally.
- Provides **mentorship, funding access, and international exposure.**

- Focus on cutting-edge domains like **healthcare AI, fintech, and deep tech solutions.**
- Strengthens India's position in the **global AI innovation ecosystem.**
- Encourages **startup-led technological development and entrepreneurship.**
- Aligns with India's vision of becoming a **global AI hub.**
- Overall, boosts **innovation, economic growth, and digital transformation.**

BACKGROUND / CONTEXT

IndiaAI Mission

- I. Government initiative to:
 - A. Promote AI development and adoption
- II. Focus areas:
 - A. Research
 - B. Innovation
 - C. Skilling

Startup Ecosystem in India

- I. India among the largest:
 - A. Startup ecosystems globally
- II. Strong presence in:
 - A. Technology and digital sectors

Global Acceleration Programme

- I. Provides:
 - A. Market access
 - B. Networking opportunities
 - C. Business scaling support

Role of AI

- I. Applications:

- A. Healthcare
 - B. Finance
 - C. Agriculture
- II. Drives:
- A. Productivity and innovation

KEY HIGHLIGHTS

- **Cohort Selection:** 10 startups chosen for global acceleration.
- **AI Focus:** Cutting-edge technology solutions.
- **Global Exposure:** Access to international markets.
- **Innovation Boost:** Strengthens startup ecosystem.
- **Economic Impact:** Drives digital economy growth.
- **Challenges:** Competition and funding gaps.
- **Way Forward:** Enhance R&D and global partnerships.

PRELIMS BOOSTER BOX

- **IndiaAI:** AI promotion initiative
- **Ministry:** Electronics and IT (MeitY)
- **Focus:** AI startups
- **Programme:** Global acceleration
- **Domains:** Healthcare, fintech, deep tech
- **Goal:** Global AI leadership
- **Benefit:** Innovation and growth

PadhAI-GENERATED UPSC MCQ

Consider the following statements:

1. IndiaAI programme aims to promote Artificial Intelligence development in India.
2. Global acceleration programmes help startups expand into international markets.
3. Artificial Intelligence has no application in healthcare.

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)